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Voluntary - Public

**Date:** 6/25/2013

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## **Russian Federation**

**Post:** Moscow

### **Customs Union Technical Regulation on Food Additives**

**Report Categories:**

Trade Policy Monitoring

Sanitary/Phytosanitary/Food Safety

FAIRS Subject Report

Food Processing Ingredients

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**Report Highlights:**

The Technical Regulation of the Russia-Kazakhstan-Belarus Customs Union (CU) "Safety Requirements for Food Additives, Flavorings and Technological Aids" (TR TS 029/2012) is a key CU regulation covering standards and requirements for all food additives and technological aids as well as processes of their production. This Technical Regulation was adopted by Decision of the Council of the Eurasian Economic Commission No. 58 of July 20, 2012, and will come into effect as of July 1, 2013.

## **General Information**

The Technical Regulation of the Russia-Kazakhstan-Belarus Customs Union (CU) “Safety Requirements for Food Additives, Flavorings and Technological Aids” (TR TS 029/2012) is a key CU regulation covering standards and requirements for all food additives and technological aids as well as processes of their production. This Technical Regulation was adopted by Decision of the Council of the Eurasian Economic Commission No. 58 of July 20, 2012, and will come into effect as of July 1, 2013.

Below is an unofficial translation of the following:

- [Decision of the Council of the Eurasian Economic Commission No. 58 of July 20, 2012;](#)
- [CU Technical regulation “Safety Requirements for Food Additives, Flavorings and Technological Aids” \(TR TS 029/2012\) with 29 annexes;](#)
- [List of standards, voluntary application of which ensures compliance with the requirements of the Technical regulation of the Customs Union “Safety Requirements for Food Additives, Flavorings and Technological Aids” \(TR TS 029/2012\);](#)
- [List of Standards containing the rules and methods of examination \(testing\) and measurement, including the rules for selection of samples required for application and meeting of the requirements of the Technical regulation of the Customs Union “Safety Requirements for Food Additives, Flavorings and Technological Aids” \(TR TS 029/2012\) and carrying out of assessment \(confirmation\) of products’ conformity.](#)

BEGIN UNOFFICIAL TRANSLATION:

**DECISION**

July 20, 2012

**No. 58**

Moscow

**On Adoption of the Technical Regulation of the Customs Union “Safety Requirements for Food Additives, Flavorings and Technological Aids”**

According to Article 3 of the Agreement on the Eurasian Economic Commission of November 18, 2011, the Council of the Eurasian Economic Commission **decided**:

1. To adopt the Technical Regulation of the Customs Union "Safety requirements for food additives, flavorings and technological aids" (TP TC 029/2012) (enclosed).

2. To establish:

2.1. The technical regulation of the Customs Union indicated in point 1 of the present Decision shall come into force from 1 July 2013;

2.2. The requirements set in point 3, 4, 5 (in the part for sterigmatocystin) of part 9 of Article 7 and Annex 28 (in the part of basic substance content) of the technological regulation of the Customs Union indicated in point 1 of the present Decision shall come into force from the date of enforcement of the intra-state standards defining the methods of control.

3. The present Decision shall come into force 30 days after its official publication.

Members of the Council of the Eurasian Economic Commission:

**From the Republic of Belarus**

**From the Republic of  
Kazakhstan**

**From the Russian  
Federation**

**S. Rumas**

**K. Kelimbetov**

**I. Shuvalov**

END UNOFFICIAL TRANSLATION.

BEGIN UNOFFICIAL TRANSLATION:

ADOPTED  
by Decision of the Council of the Eurasian  
Economic Commission  
No. 58 of July 20, 2012

**TECHNICAL REGULATION  
OF THE CUSTOMS UNION**

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**TR TS 029/2012**

**Safety Requirements for Food Additives, Flavorings and  
Technological Aids**

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## FOREWORD

1. The Technical Regulation of the Customs Union “Safety Requirements for Food Additives, Flavorings and Technological Aids” (hereinafter referred to as the Technical Regulation) is developed in accordance with the Agreement on Common Principles and Rules of Technical Regulation in the Republic of Belarus, the Republic of Kazakhstan and the Russian Federation dated November 18, 2010.

2. The Technical Regulation has been developed for the purpose of establishment in the unified customs territory of the Customs Union of the common requirements binding for application and fulfillment for food additives, flavorings and technological aids, as well as the their content in food products and ensuring free movement of food additives, flavorings and technological aids released into circulation in the unified customs territory of the Customs Union.

3. Requirements for the content and application of food additives, flavorings and technological aids established by other technical regulations of the Customs Union may not contain requirements contradicting the requirements of the present Technical Regulation.

4. If any other technical regulations of the Customs Union establishing requirements for food additives, flavorings and technological aids are adopted with regard to food additives, flavorings and technological aids, then food additives, flavorings and technological aids must also comply with the requirements of the applicable technical regulations of the Customs Union.

### Article 1. SCOPE

1. The present Technical Regulation shall establish the following:

- 1) subjects of technical regulation;
- 2) safety requirements for the subjects of technical regulation;
- 3) rules for identification of the subjects of technical regulation;
- 4) forms and procedures for assessment (confirmation) of compliance of the subjects of technical regulation with the requirements of the present Technical Regulation.

### Article 2. PURPOSES OF ADOPTION

1. The purposes of adoption of the present Technical Regulation shall be as follows:

- 1) protection of human life and health;
- 2) prevention of actions misinforming purchasers (consumers); 3) environmental protection.

### Article 3. SUBJECTS OF TECHNICAL REGULATION

1. The subjects of technical regulation of the present Technical Regulation shall be the following items released and being in circulation in the unified customs territory of the Customs Union:

- 1) food additives, complex food additives;
- 2) flavorings;
- 3) technological aids;
- 4) food products with regard to the content therein of food additives and biologically

active substances from among flavorings and residual quantities of technological aids;

5) processes of production, storage, transportation, sale and disposal of food additives, flavorings and technological aids.

2. The present Technical Regulation shall not apply to the processes, carried out by citizens in home conditions and (or) in private subsidiary plots, of production, storage, transportation, sale, disposal and application of food additives, flavorings and technological aids designated only for personal consumption and not designated for release into circulation in the unified customs territory of the Customs Union.

#### **Article 4. DEFINITIONS**

For the purposes of application of the present Technical Regulation the concepts established by the technical regulation of the Customs Union “On Food Safety,” as well as the following terms and definitions shall be used:

**food flavoring (flavoring)** – flavoring substance, or flavoring preparation, or thermal technological flavoring, or smoke flavoring, or flavoring precursors, or mixture thereof (flavoring part) not used directly for human food and designated for rendering flavor and (or) taste to food products (except for sweet, sour and salty products), with or without addition of other components;

**smoke flavoring** – mixture of substances separated from smoke, used in traditional smoke curing, by means of smoke condensate fractionation and purification;

**thermal technological flavoring** – mixture of substances resulting from heating food ingredients or ingredients not used in food, wherein one of which is an aminocompound, and another one – a reducing sugar, under the following thermal processing conditions: temperature not higher than 180°C, thermal processing duration of 15 minutes under 180°C with a relevant time increase under lower temperatures – heating time is to be doubled upon the temperature decrease by each 100°C, but no longer than within 12 hours; pH value must not exceed 8.0 throughout the process;

**antioxidant** – food additive designated for oxidation process deceleration and food products (edible raw materials) expiration dates extension;

**free-flowing agent (anti-caking agent)** – food additive designated for prevention of aggregation (caking) of particles of powder-like and fine-crystalline food products and preservation of flowability thereof;

**flavoring substance** – chemically definable (chemically individual) substance with flavoring attributes, possessing a specific flavor and (or) taste (except for sweet, sour and salty products);

**natural flavoring substance** – flavoring substance separated by means of physical, enzymatic or microbiological processes from raw materials of vegetable, microbial or animal origin, including the raw materials processed by traditional production methods of food products;

**flour processing substance** – food additive (except for emulsifying agents) designated for improvement of baking qualities or flour (dough) color;

**water-retaining agent (water-retaining substance)** – food additive designated for moisture retention and protection of food products from drying out;

**glazing agent** – food additive designated for covering the surface of food products for the purpose of brightening thereof and/or protective layer formation;

**jellifying agent** – food additive designated for the formation of food products gel-like



texture;

**thickening agent** – food additive designated for food products viscosity increase;

**catalytic agent** – technological aid designated for chemical reactions

acceleration;

**acid** – food additive designated for acidification of food products and/or souring thereof;

**conserving agent** – food additive designated for extension (increase) of food products expiration dates by means of protection thereof from microbial damage and/or pathogenic microorganisms growth;

**coloring agent** – food additive designated for addition, enhancement or restoration of food products color; food coloring agents do not include food products possessing a secondary coloring effect, as well as coloring agents used for coloring of non-edible outside parts of food products (for example, for cheese and sausage casings coloring, meat branding, as well as cheese and eggs labeling);

**complex food additive** – mixture of a food additive (s) and (or) edible raw materials and (or) flavoring (s) designated for release into circulation; wherein at least one food additive being part of a complex food additive must have a functional effect on final food products;

**maximum allowable level** (maximum level, allowable level) – hygienic standard establishing a maximum allowable quantity of a food additive (flavoring, biologically active substance) in food products guaranteeing safety thereof for a human;

**filling agent** – food additive increasing food products volume without significant caloric value increase;

**natural sources of flavoring substances (flavorings)** – plants (parts of plants), products of animal origin used as flavoring raw materials upon production of flavorings (flavoring substances, flavoring preparations);

**carrying agent** – food additive designated for solution, dilution, dispersion or other physical modifications of food additives, flavorings, enzymatic preparations, nutrients and (or) other substances not influencing functions thereof for efficiency improvement and simplification of use thereof;

**defoaming agent** – food additive designated for prevention or reduction of foam formation in food products;

**foaming agent** – food additive designated for equal distribution of gaseous phase in liquid and solid food products;

**food additive** – any substance (or a mixture of substances) possessing or not possessing its own nutrition value, usually not used directly in food, intentionally used in production of foods products for a technological purpose (function) in order to ensure the processes of production (manufacturing), handling (transportation) and storage, which results or may result in the fact that this substance or the products of transformation thereof become components of food products; food additive may perform a few technological functions;

**new food additive, flavoring, technological aid** – substances and mixtures thereof, the requirements for which are not established hereby;

**food products without added sugar** – food products manufactured without addition of mono- and disaccharides or food products containing them;

**sweetening agent** – food additive designated for addition of a sweet taste to food products or used as part of table sweetening agents;

**flavoring precursor** – substances or a mixture thereof which may be derived both from food products, as well as from products not used directly as food, not obligatorily possessing

flavoring attributes, deliberately added to food products expressly for adding a taste and flavor by means of destruction or reaction with other components in the process of food preparation;

**flavoring preparation** – mixture of flavoring and other substances separated by means of physical, enzymatic or microbiological processes: from food products or from edible raw materials, including after processing of food products by traditional preparation methods; and/or from products of vegetable, animal or microbial origin, not used directly as food, applied as such or processed using traditional preparation methods of food products;

**propellant** – food additive, gas (except for the air) designated for ejection of a food product from a tank (container);

**leavening agent** – food additive designated for the increase of dough volume at the expense of gas generation;

**acidity regulator** – food additive designated for food products pH (acidity or alkalinity) change or regulation;

**stabilizing agent** – food additive designated for ensuring aggregative stability and/or maintenance of homogeneous dispersion of two or more immiscible ingredients;

**in accordance with technical documentation** (hereinafter referred to as – in accordance with TD) – regulation established by the manufacturer for application of food additives, flavorings and technological aids in the events, when application levels and (or) types of food additives are determined by technological expediency, and the quantities of applied food additives, flavorings and technological aids must not exceed the values necessary for achieving a technological effect;

**table sweetening agent** – food products (a food additive (s)) containing allowed sweetening agents with or without addition of other food additives and (or) food components and designated for sale to consumers;

**technological aid** (hereinafter referred to as a technological aid) – substance or materials or derivatives thereof (except for equipment, packing materials, items and tableware) which, not being components of food products, are deliberately used upon processing of food (edible) raw materials and (or) upon production of food products for performance of particular technological purposes and after achievement thereof are removed from such raw materials and food products, or residual quantities of which do not have any technological effect on the end food products;

**traditional methods of production of food products** – boiling, including steam and pressure boiling (up to 120 °C), baking, roasting, stewing, frying, including oil frying (up to 240°C under atmospheric pressure), drying, boiling-down, heating, cooling, freezing, steeping, maceration (soaking), infusing (brewing), percolation (straining), filtration, pressing (expression), mixing, emulsification, refinement (cutting, grinding, mashing, pounding), capsulation, peeling (shelling), distillation (rectification), extraction (including solvent extraction), fermentation and microbiological processes;

**packaging gas** – food additive, gas (except for the air) injected into a tank (container) before, during or after placing a food product into a tank (container);

**taste (flavor) enhancement** – food additive designated for taste enhancement and (or) modification of the natural taste and (or) flavor of food products;

**firming agent** – food additive designated for preservation of the tissue density of fruit and vegetables, as well as strengthening of the gel-like structure of food products;

**color (stabilizing agent) fixative** – food additive designated for stabilization, preservation (or enhancement) of the color of food products;

**enzymatic preparations** – purified and concentrated products containing particular

enzymes or a complex of enzymes of vegetable, animal and microbial (producer) origin, necessary for implementation of biochemical processes occurring upon production of products;

**flocculant (clarifying agent, adsorbent)** – technological aid designated for the efficiency increase of impurities precipitation (adsorption) processes;

**emulsifying agent** – food additive designated for creation and/or preservation of a homogeneous mixture of two or more immiscible phases in a food product;

**emulsifying salt** – food additive designated for equal distribution of fats, proteins and/or ductility improvement of processed cheese and products based thereon.

## **Article 5. RULES OF CIRCULATION ON THE MARKET**

1. Food additives, flavorings and technological aids shall be released into circulation in the unified customs territory of the Customs Union upon their compliance with the present Technical Regulation, as well as with other applicable technical regulations of the Customs Union.

2. Food additives, flavorings and technological aids, compliance of which with the requirements of the present Technical Regulation is not confirmed, must not be labeled by the unified mark of products circulation on the Customs Union state members market and shall not be permitted for release into the market circulation.

3. Being in circulation in the unified customs territory of the Customs Union, food additives, flavorings and technological aids must be accompanied with information about the documents confirming safety thereof and documents ensuring traceability (shipping documents), as well as information on the products storage conditions and expiration dates.

## **Article 6. IDENTIFICATION RULES**

1. Identification of food additives, flavorings and technological aids shall be carried out in compliance with the rules established by the technical regulation of the Customs Union “On Food Safety.”

## **Article 7. SAFETY REQUIREMENTS FOR FOOD ADDITIVES, FLAVORINGS, AND TECHNOLOGICAL AIDS, AS WELL AS FOR THEIR USE IN PRODUCTION OF FOOD PRODUCTS**

1. For the safety purposes of application of food additives, flavorings and technological aids upon production of food products and for prevention of actions misinforming purchasers (consumers), the following requirements must be complied with:

1) application of food additives, flavorings and technological aids must not increase the degree of risk of a possible unfavorable effect of food products on human health;

2) the content of food additives, residual quantities of technological aids and biologically active substances contained in flavorings, flavoring preparations and (or) in natural sources of flavorings must comply with the requirements established by the present Technical Regulation for the allowable content of rated substances therein;

3) food additives, flavorings and technological aids must be applied only in those cases when it is necessary to improve technologies, as well as consumer attributes of food products and to increase the expiration dates thereof, which is otherwise impossible or economically

unreasonable to achieve;

4) application of food additives and flavorings must not misinform a consumer (purchaser) with regard to consumer attributes of food products;

5) application of food additives, flavorings and technological aids must not cause deterioration of organoleptic parameters of food products;

6) food additives, flavorings and technological aids must be applied upon production of food products in a minimum quantity necessary for achieving a technological effect;

7) it shall not be allowed to apply food additives and flavorings for concealment of damage and inferior quality of raw materials or prepared food products and/or adulteration thereof, and/or for the purpose of misinforming purchasers (consumers);

8) being in circulation in the unified customs territory of the Customs Union, food additives, flavorings and technological aids manufactured using gene-modified organisms and other biotechnologies must comply with the requirements of the technical regulation of the Customs Union "On Food Safety."

2. Food additives, flavorings and technological aids must be prepacked and packed in a way ensuring safety thereof and consumer attributes stated in the labeling within the expiration date upon compliance with the storage conditions.

3. Upon packing of food additives, flavorings and technological aids, materials complying with the requirements of the technical regulations of the Customs Union on safety of materials in contact with food products must be applied.

4. Safety indicators of food additives (the content of toxic elements and microbiological indicators) and the purity level must comply with the requirements established by Annex 28 to the present Technical Regulation.

5. Safety indicators of complex food additives containing edible raw materials, except for microbiological indicators, must comply with the requirements established for the food products of mixed (multicomponent) content in the technical regulation of the Customs Union "On Food Safety" and in the technical regulations of the Customs Union for selected food products.

6. Safety indicators of flavorings and the composition thereof must comply with the requirements established in Annexes 1 and 19 to the present Technical Regulation.

7. Upon production of flavorings the following products may be used as raw materials:

1) flavoring substances in accordance with Annex 19 to the present Technical Regulation;

2) natural sources of flavoring substances and/or flavoring preparations manufactured therefrom.

8. The following food flavorings may be produced for release into circulation:

1) consisting of flavoring substances in accordance with Annex 19 to the present Technical Regulation;

2) consisting of flavoring preparations manufactured from the natural sources of flavoring substances;

3) smoke flavorings;

4) thermal technological flavorings;

5) consisting of flavoring precursors;

6) other flavorings (composed of components, except for the components listed above in subclauses 1), 2), 3), 4) and 5) of the present part;

7) mixture of flavorings listed above.

9. Enzymatic preparations must comply with the following safety requirements:

1) the lead content must not exceed 5.0 mg/kg;

2) microbiological indicators:

– the quantity of mesophilic aerobic and optional-anaerobic microorganisms (QMA&OAMO), KOE/g, not over  $5 \times 10^4$  (for enzymatic preparations of vegetable, microbial (bacterial and fungal) origin),  $1 \times 10^4$  (for enzymatic preparations of animal origin, including milk-clotting preparations);

– Escherichia coli group bacteria (CGB, coliforms), in 0.1 g – shall not be allowed;

– pathogenic microorganisms, including salmonellae, in 25 g – shall not be allowed;

– E. coli, in 25 g – shall not be allowed;

3) viable forms of producers shall not be allowed;

4) enzymatic preparations of microbial (bacterial and fungal) origin must not have any antibiotic activity;

5) enzymatic preparations of fungal origin must not contain microtoxins (sterigmatocystin, aflatoxin B1, T-2 toxin, zearalenone and ochratoxin A).

10. For production of enzymatic preparations as sources and producers it shall be allowed to use organs and tissues of healthy farm animals, cultivated plants, as well as special non-pathogenic and non-toxigenic strains of microorganisms of bacteria and lower fungi in accordance with Annex 26 to the present Technical Regulation. For activity standardization and stability increase of enzymatic preparations it shall be allowed to use food additives in composition thereof in accordance with Annex 2 to the present Technical Regulation.

11. For manufacturing of enzymatic preparations as immobilizing materials and solid carrying agents it shall be allowed to use technological aids in accordance with Annex 27 to the present Technical Regulation.

12. The activity of enzymes used as technological aids must not be detectible in the end food products.

13. The content of food additives, biologically active substances in flavorings and permanent residues of technological aids in food products must comply with the requirements established in Annexes 3-8, 10-18, 20-27 and 29 to the present Technical Regulation, in technical regulation of the Customs Union “On Food Safety” and in technical regulations of the Customs Union for selected food products.

14. The total food additives content in food products from all inflow sources must not exceed maximum allowable levels established by the present Technical Regulation.

15. Food additives content in food products established by the present Technical Regulation shall be controlled under allocation (under formulation) and (or) using analytical investigation methods.

16. Hygienic standards of food additives content in food products are established in Annexes 3-18 and 29 to the present Technical Regulation.

17. The following restrictions and peculiarities of application of food additives upon production of selected food products shall be established by the present Technical Regulation:

1) food additives (except for coloring agents and sweetening agents), application of which is regulated in accordance with TD established in Annexes 3, 6, 7 (except for carbon dioxide E290), 8, 12, 15, 16 and 17 to the present Technical Regulation, shall be allowed to use for all food products, except for the following:

a) crude food products, honey, wines, fats of animal origin, cow milk butters, pasteurized and heat-treated milk and cream, natural mineral waters, coffee (except for the instant flavored coffee) and coffee extracts, non-flavored loose leaf tea, sugar, dry pasta (except for gluten-free and low-protein pasta), natural non-flavored buttermilk (except for heat-treated buttermilk);

b) food products in accordance with Annex 18 to the present Technical Regulation, for which a list of food additives used in accordance with TD and allowable levels of application thereof are established;

2) coloring agents may be applied as follows: for preservation of the initial appearance of a food product, the color of which changes as a result of technological processing, storage, packaging, etc., for addition of color to colorless food products and change of organoleptic attributes thereof. The maximum levels of flavorings in food products established in accordance with Annexes 10 and 11 to the present Technical Regulation mean the basic coloring substance content of used commercial coloring preparations;

3) it shall not be allowed to use coloring agents upon production of food products in accordance with Annex 9 to the present Technical Regulation; the coloring agents, application of which is regulated in accordance with TD, shall be allowed to use for all food products, except for the food products established in Annexes 9 and 10 to the present Technical Regulation;

4) for coloring food products it shall be allowed to use water-insoluble varnishes, the maximum coloring agents content in which must comply with the levels for soluble forms of coloring agents in accordance with Annexes 10 and 11 to the present Technical Regulation;

5) for meat branding, as well as eggs and cheese labeling the following coloring agents shall be allowed: methyl violet (C.I. 42535 under the international classification of coloring agents), rhodamine C (C.I. 45170), acid fuchsin (C.I. 45685), as well as food coloring agents in accordance with Annex 11 to the present Technical Regulation;

6) for eggs coloring it shall be allowed to use only food coloring agents established in Annex 11 to the present Technical Regulation;

7) it shall not be allowed to use flour processing substances upon flour retail sale manufacturing (except for some special flour types: pancake flour, high-ratio flour, etc.);

8) it shall not be allowed to use conserving agents upon production of milk, cream butter, flour, bread (except for the bread packed for long-term storage), meat raw materials for production of food products;

9) sulphur dioxide content in food products in the amount of under 10 mg/kg (l) (upon the use of desulphitated raw materials or due to a secondary input) shall be assessed as residual quantities not having any conserving effect;

10) upon production of meat products nitrites must be applied only in as curing nitrite mixtures (solutions) or as part of complex food additives;

11) sweetening agents must be applied as follows: in food products with a reduced caloric value and without added sugars, in dietary products designated for persons who are recommended to limit (exclude) sugar consumption, in specific products with predetermined chemical composition, as well as for sugar replacement for the purpose of food products storage life increase.

18. The scope of application and maximum levels of flavorings shall be established by the manufacturer thereof in technical documents in accordance with the standards established by the present Technical Regulation, taking into account the allowable content of food additives and biologically active substances in food products; the content of flavorings upon production of food products must not exceed the values established by the manufacturer of flavorings.

19. Allowable levels of biologically active substances content in food products contained in flavorings from vegetable raw materials (flavoring preparations) and/or in vegetable raw materials are established in Annexes 20 to the present Technical Regulation.

20. Upon the use of flavoring substances of medicinal plants and (or) flavoring

preparations from medicinal plants as natural sources the content thereof (in terms of dry raw materials or a biologically active substance contained therein) in 1 kg (l) of food products must not exceed the quantity having a drug-induced effect.

21. It shall not be allowed to use the following compounds as flavoring substances upon production of food products: agaric acid, beta-asarone, alloin, hypericin, capsaicin, quassin, coumarin, menthofuran, methyl eugenol (4-allyl-1,2-dimethphenol), pulegone, safrole (1-allyl-3,4-methylene dihydroxy benzene), hydrocyanic acid, thujone (alpha and beta), teucrin A, estragole (1-allyl-4-anisole).

22. Upon production of food products the application of natural sources of flavoring substances, as well as flavoring preparations and flavorings manufactured from them shall have the following limitations:

1) tetraploid form of Sedge Cane (*Acorus Calamus* L., CE 13) shall not be allowed upon production of food products and flavorings;

2) bitter quassia (*Quassia Amara* L., CE332) and Shining Picrasma (quassia) (*Picrasma Excelsa* (Sw.) Planch., CE 2092) shall be allowed in production of only non-alcoholic and alcoholic drinks and bakery products, quassin content shall be regulated in accordance with Annex 20 to the present Technical Regulation;

3) white agaric (*Fomes Officinalis* (Vill.Fr.) Ames or *Laricifomes Officinalis* (Vill.Fr.) Kotl. Et Pouz., CE2061a, CE359), Touch-and-Heal (*Hypericum Perforatum* L., CE234), Purple Germander (*Teucrium Chamaedrys* L., CE449) shall be allowed upon production of only alcoholic drinks. Teucrin A content shall be established in Annex 20 to the present Technical Regulation;

23. Hygienic standards of the application of technological aids shall be established in Annexes 21-27 to the present Technical Regulation.

24. For production of food products as technological aids it shall be allowed to use food additives, as well, allowed for application in accordance with Annex 2 to the present Technical Regulation.

#### **Article 8. REQUIREMENTS FOR PROCESSES OF PRODUCTION (MANUFACTURING), STORAGE SHIPMENT (TRANSPORT), SALES, AND DISPOSAL OF FOOD ADDITIVES, FLAVORINGS, AND TECHNOLOGICAL AIDS**

1. The processes of production (manufacturing), storage, shipping (transportation), sale and disposal of food additives, flavorings and technological aids must be complied with the requirements established by the technical regulation of the Customs Union "On Food Safety."

2. Flavorings containing biologically active substances specified in Annex 20 to the present Technical Regulation shall not be allowed for retail sale.

3. The following food additives shall not be allowed for retail sale:

1) acids and acidity regulators: sodium hydrocarbonate (E500ii, baking soda), citric acid (E330), carbon dioxide (E290);

2) coloring agents, including coloring agents for Easter eggs: azorubine (E122), anthocyanins (E163), sunset yellow FCF (E110), yellow quinolinic (E104), green S (E142), indicarmine (E132), carmine (E120), carotene and derivatives thereof (E160), ponceau 4R (E124), brilliant blue FCF (E133), patent blue V (E131), tartrazine (E102);

3) sweetening agents: aspartame (E951), acesulfame potassium (E950), aspartame acesulfame salt (E962), isomaltite (E953), xylite (E967), lactitol (E966), maltitol (E965),

mannitol (E421), neohesperidin dihydrochalcone (E959), saccharin and its sodium, potassium, calcium salts, (E950), sorbitol (E420), stevia and stevioside (E960), sucralose (E955), thaumatin (E957), cyclamic acid and its sodium, calcium salts (E952), erythritol (E968).

4. Retail sale of other food additives (conserving agents: benzoic acid (E210), sodium benzoate (E211), potassium benzoate (E212), calcium benzoate (E213), sorbic acid (E200), sodium sorbate (E201), potassium sorbate (E202), calcium sorbate (E203); 9% aqueous solution (maximum) acetic acid (E260); flavor and taste enhancers: glutamic acid (E620), sodium glutamate (E621), potassium glutamate (E622), calcium glutamate (E629), guanylic acid (E626), sodium guanylate (E627), potassium guanylate (E628), calcium guanylate (E629), inosinic acid (E630), sodium inosinate (E631), potassium inosinate (E632), calcium inosinate (E633), 5'-calcium ribonucleotides (E634) and 5'-sodium ribonucleotides (E635)) shall be regulated by the legislation of the Customs Union member state.

#### **Article 9. REQUIREMENTS FOR LABELING OF FOOD ADDITIVES, FLAVORINGS, AND TECHNOLOGICAL AIDS**

1. Labeling of food additives, flavorings, technological aids, as well as food products containing food additives, flavorings and technological aids, must contain information provided for by the technical regulation of the Customs Union "Labeling of Food Products," taking into account the following additional requirements:

1) the name of a food additive must contain the words "food additive" ("complex food additive") and (or) a functional class(es) of a food additive(s) and the name of a food additive (s) in accordance with the requirements of Annex 2 to the present Technical Regulation and (or) the food additive index in accordance with the International Numbering System (INS) or European Article Numbering (EAN);

2) the name of a flavoring (s) must contain the word (s) "flavoring (s)" ("flavoring substance" or "flavoring preparation" or "smoke flavoring" or "thermal technological flavoring" or "flavoring precursor");

3) the name of a flavoring (s) may be added with the word "natural" if a flavoring contains only flavoring preparations and (or) natural flavoring substances produced from natural source materials. The use of food products indication in made-up names of natural flavorings, the taste and (flavor) of which are peculiar to these flavorings, shall be allowed only in the events that such natural flavorings contain only flavoring substances and (or) natural flavoring preparations separated from those food additives;

4) the name of a technological aid (s) must contain the word "technological aid" and the name of a technological aid (s) in accordance with the requirements of Annexes 21-27 to the present Technical Regulation;

5) labeling of enzymatic preparations must additionally contain an indication of the enzyme (s) activity type (s), producer (s) microorganism (s) type (s) and origin source;

6) for food products containing enzymatic preparations, the activity type (s), producer (s) microorganism (s) type (s) of such preparations may not be indicated;

7) for food additives, flavorings, technological aids not designated for retail sale, the labeling must contain the words "not for retail sale";

8) for table sweetening agents the labeling must contain an indication of the daily consumption safe dose;

9) for food products containing flavoring preparations the labeling must contain an



indication of the preparation type (extract, infusion, essential oil, oleoresins, etc.) or the words “natural flavoring”;

10) for food products containing a flavoring (s), the flavoring substances and (or) flavoring preparations included in the flavoring (s) may not indicated;

11) sulphur dioxide conserving agent may not be indicated in the labeling provided that its content in food products is less than 10 mg/kg (l) in terms of sulphur dioxide.

2. Labeling finishing methods of food additives, flavorings, technological aids designated for retail sale must comply with the requirements set by the technical regulation of the Customs Union “Labeling of Food Products” as related to the labeling of food products placed in a transit pack.

#### **Article 10. ASSESSMENT (CONFIRMATION) OF CONFORMITY**

1. Compliance of food additives, flavorings and technological aids hereto shall be ensured by fulfillment of the safety requirements of the present Technical Regulation and fulfillment of the requirements of the technical regulation of the Customs Union “On Food Safety,” as well as applicable technical regulations of the Customs Union.

2. Examination (testing) and measuring methods shall be established in the standards in accordance with the List of Standards containing the rules and methods of examination (testing) and measurement, including the rules for selection of samples required for the application and meeting of the requirements of the present Technical Regulation and carrying out of assessment (confirmation) of products’ compliance.

3. Food additives, flavorings and technological aids shall be subject to assessment of compliance (confirmation) in accordance with the technical regulation of the Customs Union “On Food Safety.”

4. Upon assessment (confirmation) of compliance of food additives, flavorings and technological aids the following additional information shall be provided:

1) information about the composition of complex food additives (composition and indication of the composition of the rated food additives in accordance with Annexes 3-8, 10-18 and 29 to the present Technical Regulation);

2) information about the composition of flavorings, with an indication of flavoring substances, flavoring preparations, carrying agents, as well as the content of rated biologically active substances in accordance with Annex 20 to the present Technical Regulation and rated food additives in accordance with Annexes 3-8, 10-18 and 29 to the present Technical Regulation;

3) information about the use and composition of food additives, flavorings and technological aids of gene-modified organisms and components derived from GMO;

4) information about the use of nanomaterials and nanotechnology products.

5. Upon the assessment of compliance (confirmation) of enzymatic preparations the following additional information shall be provided:

1) information about the preparation origin source and characteristic thereof, including the basic and additional activity;

2) characteristic of the strain (s) of a microorganism (s), producer (s) of an enzyme (s):

a) taxonomic status (generic and specific strain name, number and original name; information about the lodging in a culture collection and about modifications);

b) toxigenicity and pathogenicity information (for the strains of generic representatives, among which there are opportunistic microorganisms);

c) information about the use of gene-modified microorganisms strains in enzymatic preparations production.

6. Upon the state registration of food additives, flavorings and new technological aids, the following information indicative of the safety of new products for human health shall be submitted in addition to the information established by parts 4-5 of this article:

1) for food additives and flavorings – characteristic of a substance (s), their (its) origin and chemical formula (s), composition, physicochemical properties, production process, basic substance content (purity level, impurity availability and content), technological effect achievement mechanism and possible products of interaction with food substances;

2) for flavorings produced from the natural sources of flavoring substances – used source part (parts), composition and content of the basic components, including biologically active components, the use for food or treatment purposes, dosages;

3) toxicological characteristics; for individual substances – metabolism in the animal body;

4) technological justification of the application of new food additives, flavorings and technological aids, advantages in comparison with already used food additives, flavorings and technological aids, a list of food products wherein it is proposed to use dosages necessary for technological effect achievement;

5) technological documentation containing the established safety indicators, methods of determination of a new food additive and technological aids (transmutation products thereof) or basic components and biologically active substances (if available).

7. The state control (supervision) for compliance with the requirements of the present Technical Regulation shall be performed in the procedure established by the national legislation of the Customs Union member state.

#### **Article 11. MARKING BY THE UNIFIED MARK OF PRODUCTS' CIRCULATION ON THE MARKET OF THE CUSTOMS UNION MEMBER-STATES**

1. Food additives, flavorings and technological aids complying with the requirements of the present Technical Regulation and having passed conformity assessment (confirmation) in accordance with article 10 of the present Technical Regulation must be labeled by the unified mark of products' circulation on the market of the Customs Union member states.

2. Labeling by the unified mark of products' circulation on the market of the Customs Union member states shall be performed before the release of food additives, flavorings and technological aids into circulation on the market of the Customs Union member states.

3. The unified mark of products' circulation on the market of the Customs Union member states shall be applied on packaging in any manner ensuring a legible and clear image within the overall expiration date of food additives, flavorings and technological aids.

#### **Article 12. SAFEGUARD CLAUSE**

1. Customs Union member states shall be obliged to undertake all measures in order to prevent the release of food additives, flavorings and technological aids not complying with the safety requirements of the present Technical Regulation into circulation on the customs territory

of the Customs Union, as well as the withdrawal from circulation thereof.

2. An authorized body of a Customs Union member state shall be obliged to notify authorized bodies of other Customs Union member states on the adopted decision, indicating the reasons for adoption of that decision and submitting evidence explaining the necessity for adoption of that measure.

**Annex 1**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Safety Requirements for Flavorings**

1. Toxic elements content in flavorings must not exceed the following indicators: lead – 5.0 mg/kg; cadmium – 1.0 mg/kg; arsenic – 3.0 mg/kg; mercury – 1.0 mg/kg;
2. Smoke flavorings must comply with the following additional requirements:
  - 1) benz(a)pyrene content must not exceed 2 mkg/kg (l);
  - 2) benz(a)anthracene content must not exceed 20 mkg/kg (l).
3. In terms of microbiological indicators flavorings must comply with the following requirements:

Types of flavorings	QMAFAnM, CFU/g,	Mass of a product, wherein the following is not admitted, g		Moulds, CFU/g, maximum	Yeast, CFU/g, maximum	Notes
		CGB (coliforms)	Pathogenic bacteria, incl. Salmonella			
Liquid and paste-like water-based flavorings <sup>1</sup>	$5 \times 10^2$	1,0	25	100		moulds and yeast in the aggregate
Dry flavorings based on sugars, gums, salt and other products	$5 \times 10^3$	0,1	25	100	100	
Dry flavorings based on starch and spices	$5 \times 10^5$	0,01	25	500	100	for spices – sulphite-reducing clostridia shall not be allowed in 0.01 g

Note:

<sup>1</sup> – except for the water solutions containing ethyl alcohol or propylene glycol over 15%.

**Annex 2**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**List of Food Additives Allowed for Use in Production of Food Products**

<b>Index</b>	<b>Name of additives</b>	<b>Basic technological functions</b>
E100	CURCUMIN	coloring agent
E101	RIBOFLAVINS: (i) Riboflavin), (ii) Riboflavin 5-phosphate sodium.	coloring agent
E102	TARTRAZINE	coloring agent
E104	QUINOLINE YELLOW	coloring agent
E110	SUNSET YELLOW FCF	coloring agent
E120	CARMINES	coloring agent
E122	AZORUBINE	coloring agent
E124	PONCEAU 4R	coloring agent
E129	ALLURA RED AC	coloring agent
E131	PATENT BLUE V	coloring agent
E132	INDIGOTINE	coloring agent
E133	BRILLIANT BLUE FCF	coloring agent
E140	CHLOROPHYLLS AND CHLOROPHYLLINS (i) Chlorophylls (ii) Chlorophyllins	coloring agent
E141	COPPER COMPLEXES OF CHLOROPHYLLS AND CHLOROPHYLLINS): (i) Copper complexes of chlorophylls, (ii) Copper complexes of chlorophyllins	coloring agent
E142	GREEN S	coloring agent
E143	FAST GREEN FCF	coloring agent
E150a	CARAMEL I – Plain	coloring agent
E150b	CARAMEL II – Caustic sulphite process	coloring agent
E150c	CARAMEL III – Ammonia process	coloring agent
E150d	CARAMEL IV – Ammonia-sulphite process	coloring agent
E151	BRILLIANT BLACK PN	coloring agent
E153	VEGETABLE CARBON	coloring agent
E155	BROWN HT	coloring agent
E160a	CAROTENES	coloring agent
E160b	ANNATO, BIXIN, NORBIXIN	coloring agent

E160c	PAPRIKA EXTRACT, CAPSANTHIN, CAPSORUBIN	coloring agent
E160d	LYCOPENE	coloring agent
E160e	BETA-APO-8'-CAROTENAI (C30)	coloring agent
E160f	BETA-APO-8'-CAROTENOIC ACID (C30) OF ETHYL ESTER	coloring agent
E161b	LUTEIN	coloring agent
E161g	CANTHAXANTHIN	coloring agent
E162	BEET RED	coloring agent
E163	ANTHOCYANINS	coloring agent
E170	CALCIUM CARBONATE	coloring agent (surface), anti-caking agent, stabilizer, carrying agent
E171	TITANIUM DIOXIDE	coloring agent
E172	IRON OXIDES AND HYDROXIDES	coloring agents
E174	SILVER	coloring agent
E175	GOLD	coloring agent
E181	TANNINS, FOOD GRADE	coloring agent, emulsifier, stabilizer
E200	SORBIC ACID	preserving agent
E201	SODIUM SORBATE	preserving agent
E202	POTASSIUM SORBATE	preserving agent
E203	CALCIUM SORBATE	preserving agent
E210	BENZOIC ACID	preserving agent
E211	SODIUM BENZOATE	preserving agent
E212	POTASSIUM BENZOATE	preserving agent
E213	CALCIUM BENZOATE	preserving agent
E214	ETHYL p-HYDROXYBENZOATE	preserving agent
E215	SODIUM ETHYL p-HYDROXYBENZOATE	preserving agent
E218	METHYL p-HYDROXYBENZOATE	preserving agent
E219	SODIUM METHYL p-HYDROXYBENZOATE	preserving agent
E220	SULPHUR DIOXIDE	preserving agent, antioxidant
E221	SODIUM SULPHITE	preserving agent, antioxidant
E222	SODIUM HYDROGEN SULPHITE	preserving agent, antioxidant
E223	SODIUM METABISULPHITE	preserving agent, antioxidant
E224	POTASSIUM METABISULPHIT	preserving agent, antioxidant
E225	POTASSIUM SULPHITE	preserving agent,

		antioxidant
E226	CALCIUM SULPHITE	preserving agent, antioxidant
E227	CALCIUM HYDROGEN SULPHITE	preserving agent, antioxidant
E228	POTASSIUM HYDROGEN SULPHITE (BISULPHITE)	preserving agent, antioxidant
E230	DIPHENYL	preserving agent
E231	ORTO-PHENYLPHENOL	preserving agent
E232	SODIUM O-PHENYLPHENOL	preserving agent
E234	NISIN	preserving agent
E235	PIMARICIN, NATAMYCIN	preserving agent
E236	FORMIC ACID	preserving agent
E242	DIMETHYL DICARBONATE	preserving agent
E249	POTASSIUM NITRITE	preserving agent, color retention agent
E250	SODIUM NITRITE	preserving agent, color retention agent
E251	SODIUM NITRATE	preserving agent, color retention agent
E252	POTASSIUM NITRATE	preserving agent, color retention agent
E260	ACETIC ACID GLACIAL	preserving agent, acidity regulator
E261	POTASSIUM ACETATES: (i) Potassium acetate, (ii) Potassium diacetate.	preserving agent, acidity regulator
E262	SODIUM ACETATES: (i) Sodium acetate, (ii) Sodium diacetate.	preserving agent, acidity regulator
E263	CALCIUM ACETATES	preserving agent, stabilizer, acidity regulator, carrying agent
E264	AMMONIUM ACETATE	acidity regulator
E265	DEHYDROACETIC ACID	preserving agent
E266	SODIUM DEHYDROACETATE	preserving agent
E270	LACTIC ACID, L-, D- and DL-	acidity regulator
E280	PROPIONIC ACID	preserving agent
E281	SODIUM PROPIONATE	preserving agent
E282	CALCIUM PROPIONATE	preserving agent
E283	POTASSIUM PROPIONATE	preserving agent
E290	CARBON DIOXIDE	acidity regulator,

		propellant, packaging gas
E296	MALIC ACID, DL-	acidity regulator
E297	FUMARIC ACID	acidity regulator
E300	ASCORBIC ACID, L-	antioxidant
E301	SODIUM ASCORBATE	antioxidant
E302	CALCIUM ASCORBATE	antioxidant
E303	POTASSIUM ASCORBATE	antioxidant
E304	(i) ASCORBYL PALMITATE (ii) ASCORBYL STEARATE	antioxidant
E306	MIXED TOCOPHEROLS CONCENTRATE	antioxidant
E307	ALPHA-TOCOPHEROL	antioxidant
E308	SYNTHETIC GAMMA-TOCOPHEROL	antioxidant
E309	SYNTHETIC DELTA-TOCOPHEROL	antioxidant
E310	PROPYL GALLATE	antioxidant
E311	OCTYL GALLATE	antioxidant
E312	DODECYL GALLATE	antioxidant
E314	GUAIAC RESIN	antioxidant
E315	ISOASCORBIC ACID, ERYTHORBIC ACID	antioxidant
E316	SODIUM ISOASCORBATE	antioxidant
E319	TERTIARY BUTYLHYDROQUINONE	antioxidant
E320	BUTYLATED HYDROXYANISOLE	antioxidant
E321	BUTYLATED HYDROXYTOLUENE, "IONOL"	antioxidant
E322	LECITHINS, PHOSPHATIDES	antioxidant, emulsifier
E325	SODIUM LACTATE	water-retaining agent, filler
E326	POTASSIUM LACTATE	acidity regulator
E327	CALCIUM LACTATE	acidity regulator, flour processing substance
E328	AMMONIUM LACTATE	acidity regulator, flour processing substance
E329	MAGNESIUM LACTATE, DL-	acidity regulator, flour processing substance
E330	CITRIC ACID	acidity regulator, antioxidant
E331	SODIUM CITRATES: (i) Sodium dihydrogen citrate, (ii) Disodium monohydrogen citrate, (iii) Trisodium citrate.	acidity regulator, emulsifier, stabilizer, carrying agent
E332	POTASSIUM CITRATES: (i) Potassium dihydrogen citrate, (ii) Tripotassium citrate.	acidity regulator, stabilizer, carrying agent
E333	CALCIUM CITRATES	acidity regulator, stabilizer



E334	TARTARIC ACID, L(+)-	acidity regulator, antioxidant
E335	SODIUM TARTRATES: (i) Monosodium tartrate, (ii) Disodium tartrate.	stabilizer
E336	POTASSIUM TARTRATES: (i) Monopotassium tartrate, (ii) Dipotassium tartrate.	stabilizer
E337	POTASSIUM SODIUM TARTRATE	stabilizer
E338	ORTHOPHOSPHORIC ACID	acidity regulator, antioxidant
E339	SODIUM PHOSPHATES: (i) Monosodium orthophosphate, (ii) Disodium orthophosphate, (iii) Trisodium orthophosphate.	acidity regulator, emulsifier, water-retaining agent, stabilizer, emulsifying salt
E340	POTASSIUM PHOSPHATES: (i) Monopotassium orthophosphate, (ii) Dipotassium orthophosphate, (iii) Tripotassium orthophosphate.	acidity regulator, emulsifier, water-retaining agent, stabilizer, emulsifying salt
E341	CALCIUM PHOSPHATES: (i) Monocalcium orthophosphate, (ii) Dicalcium orthophosphate, (iii) Tricalcium orthophosphate.	acidity regulator, flour processing substance, stabilizer, leavening agent, anti-caking agent, water- retaining agent, emulsifying salt, carrying agent
E342	AMMONIUM PHOSPHATES: (i) Monoammonium orthophosphate, (ii) Diammonium orthophosphate.	acidity regulator, flour processing substance
E343	MAGNESIUM PHOSPHATES: (i) Monomagnesium orthophosphate, (ii) Dimagnesium orthophosphate, (iii) Trimagnesium orthophosphate.	acidity regulator, anti- caking agent
E350	SODIUM MALATES: (i) Sodium hydrogen malate, (ii) Sodium malate.	acidity regulator, water- retaining agent, emulsifier, stabilizer, emulsifying salt
E351	POTASSIUM MALATES: (i) Potassium hydrogen malate, (ii) Potassium malate.	acidity regulator, water- retaining agent, emulsifier, stabilizer, emulsifying salt
E352	CALCIUM MALATES: (i) Calcium hydrogen malate, (ii) Calcium malate.	acidity regulator, water- retaining agent, emulsifier, stabilizer, emulsifying salt
E353	METATARTARIC ACID	acidity regulator
E354	CALCIUM TARTRATE	acidity regulator
E355	ADIPIC ACID	acidity regulator
E356	SODIUM ADIPATES	acidity regulator
E357	POTASSIUM ADIPATES	acidity regulator
E359	AMMONIUM ADIPATES	acidity regulator

E363	SUCCINIC ACID	acidity regulator
E365	SODIUM FUMARATES	acidity regulator
E380	AMMONIUM CITRATES	acidity regulator
E381	FERRIC AMMONIUM CITRATE	acidity regulator
E384	ISOPROPYL CITRATES	antioxidant, preserving agent
E385	CALCIUM DISODIUM EDTA	antioxidant, preserving agent
E386	DISODIUM ETHYLENE-DIAMINE-TETRA-ACETATE	antioxidant, preserving agent
E387	OXYSTEARIN	antioxidant,
E392	EXTRACTS OF ROSEMARY	antioxidant
E400	ALGINIC ACID	thickener, stabilizer, carrying agent
E401	SODIUM ALGINATE	thickener, stabilizer, carrying agent
E402	POTASSIUM ALGINATE	thickener, stabilizer
E403	AMMONIUM ALGINATE	thickener, stabilizer, carrying agent
E404	CALCIUM ALGINATE	thickener, stabilizer, defoaming agent, carrying agent
E405	PROPYLENE GLYCOL ALGINATE	thickener, emulsifier, carrying agent
E406	AGAR	thickener, jellifying agent, stabilizer, carrying agent
E407	CARRAGEENAN AND ITS Na, K, NH <sub>4</sub> SALTS (INCLUDES FURCELLARAN	thickener, jellifying agent, stabilizer, carrying agent
E407a	CARRAGEENAN PES- PROCESSED EUCHEMA SEAWEED	thickener, jellifying agent, stabilizer, carrying agent
E409	ARABINOGALACTAN	thickener, jellifying agent, stabilizer
E410	CAROB BEAN GUM	thickener, stabilizer, carrying agent
E412	GUAR GUM	thickener, stabilizer, carrying agent
E413	TRAGACANTH GUM	thickener, stabilizer, emulsifier, carrying agent
E414	GUM ARABIC (ACACIA GUM)	thickener, stabilizer, carrying agent
E415	XANTAN GUM	thickener, stabilizer, carrying agent
E416	KARAYA GUM	thickener, stabilizer
E417	TARA GUM	thickener, stabilizer

E418	GELLAN GUM	thickener, stabilizer, jellifying agent
E420	SORBITOL (i) SORBITOL (ii) SORBITOL SYRUP	sweetening agent, water-retaining agent, emulsifier, carrying agent
E421	MANNITOL	sweetening agent, anti-caking agent, carrying agent
E422	GLYCEROL	water-retaining agent, thickener, carrying agent
E425	KONJAC (KONJAC FLOUR): (i) KONJAC GUM, (ii) KONJAC GLUCOMANNANE.	thickener
E426	SOYBEAN HEMICELLULOSE	thickener, stabilizer
E427	CASSIA GUM	thickener, stabilizer
E430	POLYOXYETHYLENE (8) STEARATE	emulsifier
E431	POLYOXYETHYLENE (40) STEARATE	emulsifier
E432	POLYOXYETHYLENE (20) SORBITAN MONOLAURATE, TWEEN 20	emulsifier, carrying agent
E433	POLYOXYETHYLENE (20) SORBITAN MONOOLEATE, TWEEN 80	emulsifier, carrying agent
E434	POLYOXYETHYLENE (20) SORBITAN MONOPALMITATE, TWEEN 40	emulsifier, carrying agent
E435	POLYOXYETHYLENE (20) SORBITAN MONOSTEARATE, TWEEN 60	emulsifier, carrying agent
E436	POLYOXYETHYLENE (20) SORBITAN TRISTEARATE	emulsifier, carrying agent
E440	PECTINS	thickener, stabilizer, jellifying agent, carrying agent
E442	AMMONIUM SALTS OF PHOSPHATIDIC ACID (AMMONIUM PHOSPHATIDES)	emulsifier, carrying agent
E444	SUCROSE ACETATE ISOBUTIRAT	emulsifier, stabilizer
E445	GLYCEROL ESTERS OF WOOD RESIN	emulsifier, stabilizer
E450	DIPHOSPHATES: (i) Disodium diphosphate, (ii) Trisodium diphosphate, (iii) Tetrasodium diphosphate; (iv) Dipotassium diphosphate, (v) Tetrapotassium diphosphate, (vi) Dicalcium diphosphate, (vii) Calcium dihydrogen diphosphate.	emulsifier, stabilizer, acidity regulator, leavening agent, water-retaining agent
E451	TRIPHOSPHATES: (i) Pentasodium triphosphate, (ii) Pentapotassium triphosphate.	acidity regulator
E452	POLYPHOSPHATES: (i) Sodium polyphosphate, (ii) Potassium polyphosphate,	emulsifier, stabilizer, water-retaining agent

	(iii) Sodiumcalcium polyphosphate, (iv) Calcium polyphosphates, (v) Ammonium polyphosphates.	
E459	BETA-CYCLODEXTRIN	stabilizer, carrying agent
E460	CELLULOSE: (i) Microcrystalline cellulose, (ii) Powdered cellulose.	emulsifier, anti-caking agent, carrying agent
E461	METHYL CELLULOSE	thickener, emulsifier, stabilizer, carrying agent
E462	ETHYL CELLULOSE	filler, carrying agent
E463	HYDROXYPROPYL CELLULOSE	thickener, emulsifier, stabilizer
E464	HYDROXYPROPYL METHYL CELLULOSE	thickener, emulsifier, stabilizer, carrying agent
E465	METHYL ETHYL CELLULOSE	thickener, emulsifier, stabilizer, foaming agent, carrying agent
E466	CARBOXYMETHYL CELLULOSE SODIUM CARBOXYMETHYL CELLULOSE CELLULOSE GUM	thickener, stabilizer, carrying agent
E467	ETHYL HYDROXYETHYL CELLULOSE	emulsifier, thickener, stabilizer
E468	CROSCARMELLOSE (CROSS-LINKED SODIUM CARBOXYMETHYL CELLULOSE)	stabilizer, carrying agent
E469	ENZYMATICALLY HYDROLYSED CARBOXYMETHYL CELLULOSE ENZYMATICALLY HYDROLYSED CELLULOSE GUM	thickener, stabilizer, carrying agent
E470	SALTS OF MYRISTIC, PALMITIC AND STEARIC FATTY ACIDS (with base Al, Ca, Na, Mg, K and NH <sub>4</sub> )	emulsifier, stabilizer, anti-caking agent, carrying agent
E471	MONO- AND DIGLYCERIDES OF FATTY ACIDS	emulsifier, stabilizer, carrying agent
E472a	ESTERS ACETIC AND FATTY ACID OF GLYCEROL	emulsifier, stabilizer, carrying agent
E472b	ESTERS LACTIC AND FATTY ACID OF GLYCEROL	emulsifier, stabilizer,
E472c	CITRIC AND FATTY ACID ESTERS OF GLYCEROL	emulsifier, stabilizer, carrying agent
E472d	TARTARIC ACID ESTERS OF MONO- AND DIGLYCERIDES OF FATTY ACIDS	emulsifier, stabilizer
E472e	DIACETYLTARTARIC AND FATTY ACID ESTERS OF GLYCEROL	emulsifier, stabilizer, carrying agent
E472f	MIXED TARTARIC, ACETIC AND FATTY ACID ESTERS OF GLYCEROL	emulsifier, stabilizer,
E473	SUCROSE ESTERS OF FATTY ACIDS	emulsifier, carrying agent
E474	SUCROGLYCERIDES	emulsifier
E475	POLYGLYCEROL ESTERS OF FATTY ACIDS	emulsifier, carrying agent

E476	POLYGLYCEROL ESTERS OF INTERESTERIFIED RICINOLEIC ACID	emulsifier
E477	PROPYLENE GLYCOL ESTERS OF FATTY ACIDS	emulsifier
E479	THERMALLY OXIDIZED SOYABEAN OIL WITH MONO-AND DIGLYCERIDES OF FATTY ACIDS	emulsifier
E480	DIOCTYL SODIUM SULPHOSUCCINATE	emulsifier, water-retaining agent
E481	SODIUM STEAROYL -2-LACTYLATE	emulsifier, stabilizer
E482	CALCIUM STEAROYL -2-LACTYLATE	emulsifier, stabilizer
E483	STEARYL TARTRATE	flour processing substance
E484	STEARYL CITRATE	emulsifier
E491	SORBITAN MONOSTEARATE, SPAN 60	emulsifier, carrying agent
E492	SORBITAN TRISTEARATE	emulsifier, carrying agent
E493	SORBITAN MONOLAURATE, SPAN 20	emulsifier, carrying agent
E494	SORBITAN MONOOLEATE, SPAN 80	emulsifier, carrying agent
E495	SORBITAN MONOPALMITATE, SPAN 40	emulsifier, carrying agent
E500	SODIUM CARBONATES: (i) Sodium carbonate, (ii) Sodium hydrogen carbonate, (iii) Sodium sesquicarbonate	acidity regulator, leavening agent, anti-caking agent
E501	POTASSIUM CARBONATES: (i) Potassium carbonate, (ii) Potassium hydrogen carbonate.	acidity regulator, stabilizer, carrying agent
E503	AMMONIUM CARBONATES: (i) Ammonium carbonate, (ii) Ammonium hydrogen carbonate.	acidity regulator, leavening agent
E504	MAGNESIUM CARBONATES: (i) Magnesium carbonate, (ii) Magnesium hydrogen carbonate.	acidity regulator, anti-caking agent, color retention agent, carrying agent
E507	HYDROCHLORIC ACID	acidity regulator
E508	POTASSIUM CHLORIDE	jellifying agent, carrying agent
E509	CALCIUM CHLORIDE	firming agent, carrying agent
E510	AMMONIUM CHLORIDE	flour processing substance
E511	MAGNESIUM CHLORIDE	firming agent, carrying agent
E513	SULPHURIC ACID	acidity regulator
E514	SODIUM SULPHATES	acidity regulator, carrying agent
E515	POTASSIUM SULPHATES	acidity regulator, carrying agent

E516	CALCIUM SULPHATE	flour processing substance, firming agent, carrying agent
E517	AMMONIUM SULPHATE	flour processing substance, stabilizer, carrying agent
E518	MAGNESIUM SULPHATE	firming agent
E520	ALUMINIUM SULPHATE	firming agent
E521	ALUMINIUM SODIUM SULPHATE, SODIUM ALUM	firming agent
E522	ALUMINIUM POTASSIUM SULPHATE, SODIUM ALUM	acidity regulator, stabilizer
E523	ALUMINIUM AMMONIUM SULPHATE, AMMONIA ALUM	stabilizer, firming agent
E524	SODIUM HYDROXIDE	acidity regulator
E525	POTASSIUM HYDROXIDE	acidity regulator
E526	CALCIUM HYDROXIDE	acidity regulator, firming agent
E527	AMMONIUM HYDROXIDE	acidity regulator
E528	MAGNESIUM HYDROXIDE	acidity regulator, color retention agent
E529	CALCIUM OXIDE	acidity regulator, flour processing substance
E530	MAGNESIUM OXIDE	anti-caking agent
E535	SODIUM FERROCYANIDE	anti-caking agent
E536	POTASSIUM FERROCYANIDE	anti-caking agent
E538	CALCIUM FERROCYANIDE	anti-caking agent
E541	SODIUM ALUMINIUM PHOSPHATE ACIDIC	acidity regulator, emulsifier
E542	BONE PHOSPHATE (essentiale Calcium phosphate, tribasic)	emulsifier, anti-caking agent, water-retaining agent
E551	SILICON DIOXIDE AMORPHOUS	anti-caking agent, carrying agent
E552	CALCIUM SILICATE	anti-caking agent, carrying agent
E553	MAGNESIUM SILICATES: (i) Magnesium silicate, (ii) Magnesium trisilicate, (iii) Talc	anti-caking agent
E554	SODIUM ALUMINOSILICATE	anti-caking agent
E555	POTASSIUM ALUMINIUM SILICATE	anti-caking agent
E556	CALCIUM ALUMINIUM SILICATE	anti-caking agent
E558	BENTONITE	anti-caking agent, carrying agent
E559	ALUMINIUM SILICATE (KAOLIN)	anti-caking agent, carrying agent
E570	FATTY ACIDS	stabilizer, glazing agent,

		defoaming agent, carrying agent
E574	GLUCONIC ACID (D-)	acidity regulator, antioxidant, leavening agent
E575	GLUCONO DELTA-LACTONE	acidity regulator, antioxidant, leavening agent
E576	SODIUM GLUCONATE	acidity regulator, antioxidant
E577	POTASSIUM GLUCONATE	acidity regulator, antioxidant, carrying agent
E578	CALCIUM GLUCONATE	acidity regulator, firming agent
E579	FERROUS GLUCONATE	color retention agent
E580	MAGNESIUM GLUCONATE	acidity regulator, antioxidant, firming agent
E585	FERROUS LACTATE	color retention agent
E586	4-HEXYLRESORCINOL	antioxidant
E620	GLUTAMIC ACID, L(+)	taste and flavor enhancer
E621	MONOSODIUM GLUTAMATE	taste and flavor enhancer
E622	MONOPOTASSIUM GLUTAMATE	taste and flavor enhancer
E623	CALCIUM GLUTAMATE	taste and flavor enhancer
E624	MONOAMMONIUM GLUTAMATE	taste and flavor enhancer
E625	MAGNESIUM GLUTAMATE	taste and flavor enhancer
E626	GUANYLIC ACID	taste and flavor enhancer
E627	DISODIUM 5'-GUANYLATE	taste and flavor enhancer
E628	DIPOTASSIUM 5'-GUANYLATE	taste and flavor enhancer
E629	CALCIUM 5'-GUANYLATE	taste and flavor enhancer
E630	INOSINIC ACID	taste and flavor enhancer
E631	DISODIUM 5'-INOSINATE	taste and flavor enhancer
E632	DIPOTASSIUM 5'-INOSINATE	taste and flavor enhancer
E633	CALCIUM 5'-INOSINATE	taste and flavor enhancer
E634	CALCIUM 5'-RIBONUCLEOTIDES	taste and flavor enhancer
E635	DISODIUM 5' -RIBONUCLEOTIDES	taste and flavor enhancer
E636	MALTOL	taste and flavor enhancer
E637	ETHYL MALTOL	taste and flavor enhancer
E640	GLYCINE AND ITS SODIUM SALT	taste and flavor enhancer, carrying agent
E650	ZINC ACETATE	taste and flavor enhancer
E900	POLYDIMETHYLSILOXANE	defoaming agent,

		emulsifier, anti-caking agent
E901	BEESWAX, WHITE AND YELLOW	glazing agent, carrying agent
E902	CANDELILLA WAX	glazing agent
E903	CARNAUBA WAX	glazing agent
E904	SHELLAC	glazing agent
E905c(i)	MICROCRYSTALLINE WAX	glazing agent
E905d	MINERAL OIL (HIGH VISCOSITY)	glazing agent
E905e	MINERAL OIL (MEDIUM AND LOW VISCOSITY, CLASS I)	glazing agent
E907	HYDROGENATED POLY-1-DECENE	glazing agent
E912	MONTANIC ACID ESTERS	glazing agent
E914	OXIDIZED POLYETHYLENE WAX	glazing agent
E920	CYSTEINE, L-, AND ITS HYDROCHLORIDES- SODIUM AND POTASSIUM SALTS	flour processing substance
E927b	CARBAMIDE (UREA)	flour processing substance, taste and flavor enhancer
E928	BENZOYL PEROXIDE	flour processing substance, preserving agent
E930	CALCIUM PEROXIDE	flour processing substance
E938	ARGON	propellant, packaging gas
E939	GELLIUM	propellant, packaging gas
E941	NITROGEN	propellant, packaging gas
E942	NITROUS OXIDE	propellant, packaging gas
E943a	BUTANE	propellant, packaging gas
E943b	ISOBUTANE	propellant, packaging gas
E944	PROPANE	propellant, packaging gas
E948	OXYGEN	propellant, packaging gas
E949	HYDROGEN	propellant, packaging gas
E950	ACESULFAME POTASSIUM	sweetening agent, taste and flavor enhancer
E951	ASPARTAME	sweetening agent, taste and flavor enhancer
E952	CYCLAMIC ACID and Na, Ca salts	sweetening agent
E953	ISOMALT, ISOMALTITOL	sweetening agent, anti-caking agent, filler, carrying agent, glazing agent
E954	SACCHARIN and Na, K, Ca salts	sweetening agent
E955	SUCRALOSE (TRICHLOROGALACTO-SUCROSE)	sweetening agent
E957	THAUMATIN	sweetening agent, taste and



		flavor enhancer
E959	NEOHESPERIDINE DIHYDROCHALCONE	sweetening agent, taste and flavor enhancer
E960	STEVIOL GLYCOSIDES	sweetening agent
E961	NEOTAME	sweetening agent, taste and flavor enhancer
E962	SALT OF ASPARTAME-ACESULFAME	sweetening agent
E965	MALTITOL AND MALTITOL SYRUP	sweetening agent, stabilizer, emulsifier, carrying agent
E966	LACTITOL	sweetening agent, carrying agent
E967	XYLITOL	sweetening agent, water-retaining agent, stabilizer, emulsifier
E968	ERYTHRITOL	sweetening agent, water-retaining agent, stabilizer
E999	QUILLAIA EXTRACTS	foaming agent
E1200	POLYDEXTROSES	stabilizer, thickener, water-retaining agent, carrying agent
E1201	POLYVINYLPIRROLIDONE	thickener, stabilizer, carrying agent
E1202	POLYVINYLPOLYPYRROLIDONE	color retention agent, stabilizer, carrying agent
E1203	POLYVINYL ALCOHOL	water-retaining agent, glazing agent
E1204	PULLULAN	glazing agent, thickener
E1400	DEXTRINS, ROASTED STARCH WHITE AND YELLOW	stabilizer, thickener
E1401	ACID TREATED STARCH	stabilizer, thickener
E1402	ALKALINE TREATED STARCH	stabilizer, thickener
E1403	BLEACHED STARCH	stabilizer, thickener
E1404	OXIDIZED STARCH	emulsifier, thickener, carrying agent
E1405	STARCHES ENZYME-TREATED	thickener
E1410	MONOSTARCH PHOSPHATE	stabilizer, thickener, carrying agent
E1412	DISTARCH PHOSPHATE	stabilizer, thickener, carrying agent
E1413	PHOSPHATED DISTARCH PHOSPHATE	stabilizer, thickener, carrying agent
E1414	ACETYLATED DISTARCH PHOSPHATE	emulsifier, thickener, carrying agent

E1420	ACETYLATED STARCH	stabilizer, thickener
E1422	ACETYLATED DISTARCH ADIPATE	stabilizer, thickener, carrying agent
E1440	HYDROXYPROPYL STARCH	emulsifier, thickener, carrying agent
E1442	HYDROXYPROPYL DISTARCH PHOSPHATE	stabilizer, thickener, carrying agent
E1450	STARCH SODIUM OCTENYL SUCCINATE	stabilizer, thickener, emulsifier, carrying agent
E1451	ACETILATED OXYDISED STARCH	emulsifier, thickener
E1452	STARCH ALUMINIUM OCTENYL SUCCINATE	stabilizer, glazing agent
E1503	CASTOR OIL	glazing agent, anti-caking agent, filler
E1505	TRIETHYL CITRATE	foaming agent, carrying agent
E1517	DIACETIN (GLYCERYL DIACETAT)	water-retaining agent, carrying agent
E1518	TRIACETIN	water-retaining agent, carrying agent
E1519	BENZYL ALCOHOL	carrying agent
E1520	PROPYLENE GLYCOL	water-retaining agent, carrying agent
E1521	POLYETHYLENE GLYCOL	glazing agent, stabilizer, carrying agent
-	Dihydroquercetin	antioxidant
-	Quercetin	antioxidant
-	RED RICE	coloring agent
-	Glycyrrhiza sp. extract	stabilizer, foaming agent
-	Acantophyllum sp. extract	stabilizer, foaming agent
-	Stevia rebaudiana Bertoni, leaves powder and syrop therefrom, stevia extracts	sweetening agent
-	Sodium, potassium and calcium succinates	acidity regulators
-	Chitosan, chitosonium hydrochloride	filler, thickener, stabilizer

**Annex 3**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Anti-Caking Agents (Free Flow Agents)**

<b>Food Additive (index E)</b>	<b>Food Products</b>	<b>Maximum level in products</b>
Amorphous silicon dioxide (E551), aluminum silicate (E559, kaolin), potassium aluminum silicate(E555), calcium aluminum silicate (E556), sodium aluminum silicate (E554) bentonite (E558), calcium silicate (E552), magnesium silicates (E553i, E553ii, E553iii) – separate or combined	Spices	30 g/kg
	Tightly foil-wrapped products	30 g/kg
	Dry powder-like products, including sugars	10g/kg 15 g/kg for powdered sugar
	Products in the form of tablets	in accordance with TD (in accordance with technical documentation)
	Biologically active food additives	in accordance with TD
	Cheeses and replacers thereof (hard, semi-hard, processed) cut and grated	10 g/kg
	Sugary confectionery, except for chocolate products (surface treatment)	in accordance with TD
	Rice (only 553iii)	in accordance with TD
	Sausages (surface treatment, only 553iii)	in accordance with TD
	Salt and salt replacers	10 g/kg
	Chewing gum(only E553iii)	in accordance with TD
	Flavorings (only E551)	50 g/kg
	See Annex No. 12	
Salts of myristic, palmitic and stearic fatty acids (with base Al, Ca, Na, Mg, K and NH <sub>4</sub> ) (E470)	In accordance with TD	in accordance with TD
Isomaltitol, isomalt (E953)	In accordance with TD	in accordance with TD
Calcium carbonate (E170), magnesium carbonate (E504)	In accordance with TD	in accordance with TD
	See Annex No. 7	
Castor oil (E1503)	Cocoa products and chocolate products	350 mg/kg
	Sugary confectionery	500 mg/kg
	Chewing gum	2,1 g/kg
	Biologically active food additives	1 g/kg
	See Annexes No. 6 and 12	
Magnesium oxide (E530)	In accordance with TD	in accordance with TD
Polydimethylsiloxane (E900)	Specialty fats, vegetable oils designated for frying	10 mg/kg

	Preserved and pasteurized fruit and vegetables	10 mg/kg
	Jams, marmalade, jelly, fruit jelly and similar fruit-based products for spreading, including low-calorie products	10 mg/kg
	Sugary confectionery, except for chocolate	10 mg/kg
	Chewing gum	100 mg/kg
	Grain products produced by the extrusion technology	10 mg/kg
	Concentrated and preserved soups and broths	10 mg/kg
	Flavoring-based non-alcoholic beverages	10 mg/kg
	Wines, cider	10 mg/kg
	Thin dough, including for breading, for poultry and fish	10 mg/kg
	Flavorings	10 mg/kg
	See Annexes No. 12 and 15	
Potassium ferrocyanide (E536), calcium ferrocyanide (E538), sodium ferrocyanide (E535) – separate or combined	Salt and salt substitutes	20 mg/kg in terms of $K_4Fe(CN)_6$
Tricalcium phosphate (E341iii), trimagnesium phosphate (E343iii)	In accordance with TD	in accordance with TD
	See Annexes No. 5, 7, 12, and 15	
Ferrum ammonium citrate (E381)	Concentrates (liquid and powder-like) for nonalcoholic flavored water-based beverages	10 mg/kg

**Annex 4**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Antioxidants**

Food additive (index E)	Food products	Maximum level in products	
Ascorbic acid (E300), as well as salts and ethers thereof: potassium ascorbate (E303), calcium ascorbate (E302), sodium ascorbate (E301), ascorbyl palmitate (E304i), ascorbyl stearate (E304ii)	in accordance with TD	in accordance with TD	
	See Annex No. 5, 17 and 18		
tert-Butylhydroquinone (E319, TBHQ)	See Butyl hydroxy anisole (E320, BHA)		
Butyl hydroxy anisole (E320, BHA), Buthylhydroxytoluene (E321, Ionol, BHT), tert-Butylhydroquinone (E319, TBHQ), Gallic acid esters (gallates): propyl gallate (E310), octyl gallate (E311), dodecyl gallate (E312) – separate or combined <sup>1</sup>	Rendered animal fats and vegetable oils to be used in high-temperature production of food products; Specialty fats, vegetable oils (except for the olive oil produced by pressing), designated for frying; Lard, beef, mutton, poultry, pork, fish and marine animal fat	BHA – 200 mg/kg, BHT – 100 mg/kg, TBHQ – 200 mg/kg, Gallates – 200 mg/kg (per product fat)	
	Dried meat Dry mixtures (concentrates) for fruit cakes and cakes Grain-based dry breakfast cereals Sauces based on vegetable oil formulations, mayonnaise sauces, creams based on vegetable oil formulations Thermally preprocessed grains Technologically processed nuts	BHA – 200 mg/kg, TBHQ – 200 mg/kg Gallates – 200 mg/kg (per product fat)	
	Seasonings and spices	BHA – 200 mg/kg, Gallates – 200 mg/kg (per product fat)	
	Dried potatoes	BHA – 25 mg/kg, TBHQ – 25 mg/kg Gallates – 25 mg/kg	
	Chewing gum Biologically active food additives	BHA – 400 mg/kg, BHT – 400 mg/kg TBHQ – 400 mg/kg Gallates – 400 mg/kg	
	Essential oils	BHA – 1 g/kg TBHQ – 1 g/kg Gallates – 1 g/kg	
	Flavorings (except for essential oils)	BHA – 200 mg/kg TBHQ – 200 mg/kg Gallates – 100 mg/kg	
	Buthylhydroxytoluene (E321, Ionol, BHT)	See Butyl hydroxy anisole (E320, BHA)	

Gallic acid esters (gallates): propyl gallate (E310), octyl gallate (E311), dodecyl gallate (E312)	See Butyl hydroxy anisole (E320, BHA)	
Guaiac resin (E314)	Fats and oils (vegetable and animal)	1 g/kg
	Chewing gum	1.5 g/kg
	Sauces based on vegetable oil formulations, mayonnaise sauces, creams based on vegetable oil formulations	600 mg/kg
4-Hexylresorcinol (E586)	Fresh and frozen crustaceans	2 mg/kg residual quantities in crustaceans meat
Gluconic acid (E574) and its gluconate salts: with base K (E577), Ca (E578), Mg (E580), Na (E576) Glucono delta-lactone (E575)	in accordance with TD	in accordance with TD
	See Annexes No. 5, 7 and 12	
Isoascorbic acid, erythorbic acid (E315), sodium isoascorbate (E316) – separate or combined, in terms of isoascorbic acid	Meat products from ground meat and filling, ham products, semi-preserved foods, preserves	500 mg/kg
	Fish and caviar semi-preserved foods, preserves, salted and dried fish, frozen red-skin fish	1.5 g/kg
	See Annex No. 17	
Isopropyl citrates (E384)	Vegetable oils, specialty fats, milk fat replacers, rendered mixtures, cocoa butter equivalents, SOS cocoa butter improvers, POP cocoa butter substitutes, nonlauric untemperable cocoa butter substitutes, lauric untemperable cocoa butter substitutes, lard, salted pork fat, fish and marine animal fat	200 mg/kg
	Oil and butter vegetable, vegetable oil and butter, vegetable fat spreads (with milk fat)	100 mg/kg
	Meat and poultry (of slaughter and wild animals and poultry): fresh, ground meat; meat products (sliced, cut, ground) preserved (including salted) and dried without cooking	200 mg/kg
	Flavored non-alcoholic beverages, including specialized beverages	200 mg/kg
Quercetin, dihydroquercetin – separate or combined	Concentrated cream, powdered milk, processed cheeses, chocolate	200 mg/kg per product fat
Lecithins (E322)	In accordance with TD	in accordance with TD

Citric acid (E330)	In accordance with TD	in accordance with TD
	See Annex No. 7	
Potassium lactate (E326), calcium lactate (E327), sodium lactate (E325)	In accordance with TD	in accordance with TD
	See Annex No. 5 and 7	
Sulphurous acid (sulphur dioxide E220) and salts: potassium hydrogen sulphite (bisulphite) E228, calcium hydrogen sulphite E227, sodium hydrogen sulphite E222, potassium metabisulphite E224, sodium metabisulphite E223, potassium sulphite E225, calcium sulphite E226, sodium sulphite E221.	See Annexes No. 8	
Tocopherols: alpha-tocopherol (E307), synthetic gamma-tocopherol (E308), synthetic delta-tocopherol (E309), mixed tocopherols concentrate (E306)	In accordance with TD	in accordance with TD
Calcium disodium ethylenediamine tetraacetate (E385, calcium disodium EDTA), disodium ethylene-diamine-tetraacetate (E386 disodium EDTA) – separate or combined	Spreads and margarines containing 41% fat and less	100 mg/kg
	Fish, crustaceans and mollusca, preserved and pasteurized	75 mg/kg
	Frozen crustaceans	75 mg/kg
	Beans, vegetables, mushrooms, artichokes, preserved and pasteurized	250 mg/kg
	Flavored non-alcoholic beverages, including specialized beverages	200 mg/l
	Sauces based on vegetable oil formulations, mayonnaise sauces, creams based on vegetable oil formulations	75mg/kg
Rosemary extracts (E392), in terms of the total of carnosol and carnosic acid	Vegetable oils (except for the olive oil), specialty fats, milk fat replacers, rendered mixtures, cocoa butter equivalents, SOS cocoa butter improvers, POP cocoa butter substitutes, non-lauric untemperable cocoa butter substitutes, lauric untemperable cocoa butter substitutes containing polyunsaturated fatty acids over 15 volume % of the total fatty acids designated for production of food products without cooking	30 mg/kg (per product fat)
	Lard, salted pork fat, fish and marine animal fat Rendered animal fats and vegetable oils to be used in production of thermally processed food products; Vegetable oils (except for the olive oil) designated for frying Dry breakfast	50 mg/kg (per product fat)

cereals (snacks) based on cereal grains, potatoes or starch.	
Sauces based on vegetable oil formulations, mayonnaise sauces, creams based on vegetable oil formulations	100 mg/kg (per product fat)
Rich bakery products	200 mg/kg (per product fat)
Biologically active food additives	400 mg/kg
Dried potatoes Egg products Chewing gum	200 mg/kg
Seasonings and spices Processed nuts	200 mg/kg (per product fat)
Soups and broths (concentrates)	50 mg/kg
Dried meat	150 mg/kg
Meat and fish products (except for the dried meat and dry (dried) sausages)	150 mg/kg (per product fat)
Dry (dried) sausages	100 mg/kg
Flavorings	1 g/kg
Powdered milk for milk-based ice-cream production	30 mg/kg

Note:

<sup>1</sup> – For such antioxidants as butyl hydroxy anisole, butylhydroxytoluene, tertiary butylhydroquinone and gallates, the maximum levels upon the individual use thereof are specified; upon the combined use the maximum levels of separate antioxidants must be proportionally decreased, i.e. the total mass (expressed in %s of the maximum levels of separate antioxidants) must not exceed 100%.



**Annex 5**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Flour Processing Substances**

<b>Food additive (index E)</b>	<b>Food products</b>	<b>Maximum level in products</b>
Sodium aluminium phosphate acidic (E541)	See Annex No. 7	
Ascorbic acid (E300), as well as salts and ethers thereof: potassium ascorbate (E303), calcium ascorbate (E302), sodium ascorbate (E301), ascorbyl palmitate (E304i), ascorbyl stearate (E304ii)	In accordance with TD	in accordance with TD
	See Annex No. 4, 17 and 18	
Glycerol (E422)	In accordance with TD	in accordance with TD
	See Annex No. 12	
Calcium gluconate (E578), glucono delta-lactone (E575)	In accordance with TD	in accordance with TD
	See Annexes No. 4 and 7	
Lactic acid (E270) and its lactate salts: with base NH <sub>4</sub> (E328), K (E326), Ca (E327), Mg (E329), Na (325)	In accordance with TD	in accordance with TD
	See Annexes No. 4 and 7	
Calcium oxide (E529)	In accordance with TD	in accordance with TD
	See Annex No. 7	
Benzoyl peroxide (E928)	Flour	75 mg/kg
	Lactoserum (dry and liquid) and products therefrom except for the serum cheeses	100 mg/kg (l)
Calcium peroxide (E930)	Flour	50 mg/kg
Polyoxyethylene sorbitans (polyoxyethylene sorbitan esters of fatty acids, tweens): polyoxyethylene sorbitan (20) monolaurate (E432, tween 20), polyoxyethylene sorbitan (20) monooleate (E433, tween 80), polyoxyethylene sorbitan (20) monopalmitate (E434 tween 40), polyoxyethylene sorbitan (20) monostearate (E435, tween 60), polyoxyethylene (20) sorbitan tristearate (E436, tween 65)	See Annex No. 15	
Propylene glycol alginate (E405)	See Annex No. 15	
Sucroglycerides (E474), Sucrose esters of fatty acids (E473) – separate or combined	See Annex No. 15	

Sorbitans, sorbitol esters of fatty acids, SPANs: sorbitan monostearate (E491, SPAN 60), sorbitan tristearate (E492, SPAN 65), sorbitan monolaurate (E493, SPAN 20), sorbitan monooleate (E494, SPAN 80), sorbitan monopalmitate (E495, SPAN 40)	See Annex No.12 and 15	
Ammonium sulphates (E517), calcium sulphates (E516)	in accordance with TD	in accordance with TD
	See Annex No. 7 and 12	
Potassium phosphates (E340), calcium phosphates (E341), magnesium phosphates (E343), sodium phosphates (E339), diphosphates (E450), triphosphates (E451), polyphosphates (E452)	See Annexes No. 3, 7, 12 and 15	
Ammonium chloride (E510)	In accordance with TD	in accordance with TD
	See Annex 7	
Cysteine and its salts – sodium and potassium hydrochlorides (E920)	Bakery and flour confectionery	in accordance with TD

**Annex 6**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Glazing Agents**

Food additive (index E)	Food products	Maximum level in products
White and yellow beeswax (E901), candelilla wax (E902), shellac (E904)	Fresh citrus fruit, melons, pineapples, peaches, pears, apples (surface treatment)	in accordance with TD
	Sweets, panned sweets, chocolate, flour confectionery covered with chocolate glaze	in accordance with TD
	Chewing gum	in accordance with TD
	Dry breakfast cereals (snacks), nuts	in accordance with TD
	Whole bean coffee	in accordance with TD
	Biologically active food additives	in accordance with TD
	Wafers – in milk-based cone ice-cream (only E901)	in accordance with TD
	Flavorings: flavored non-alcoholic beverages (only E901)	0.2 g/kg (in a ready- prepared product)
Carnauba wax (E903)	Fresh citrus fruit, melons, pineapples, peaches, pears, apples	200 mg/kg
	Sweets, panned sweets, chocolate ,	500 mg/kg
	Flour confectionery covered with chocolate glaze	200 mg/kg
	Chewing gum	1.2 g/kg
	Dry breakfast cereals (snacks), nuts	200 mg/kg
	Whole bean coffee	200 mg/kg
	Biologically active food additives	200 mg/kg
Castor oil	See Annex No. 3 and 12	
Starch aluminum Ctenyl succinate (E1452)	See Annex No. 15	
Microcrystalline wax (E905ci)	Sweets, panned sweets, nougat	in accordance with TD
	Chewing gum	20 g/kg
	Melon, mango, papaya, avocado	in accordance with TD
	Aged cheese crust	30 g/kg
	Surface treatment of fresh fruit and vegetables, mushrooms, beans, nuts and seeds	50 mg/kg
Mineral oil (high viscosity) E905d	Dried fruit	5 g/kg
	Cocoa products, chocolate products, including imitated products and chocolate substitutes	2 g/kg
	Sweets, panned sweets, nougat	2 g/kg

	Chewing gum	20 g/kg
	Decorative coatings and decorations (except for the fruit coatings and decorations)	2 g/kg
	Grain, including rice (whole, ground, cereal)	800 mg/kg
	Flour confectionery (baked goods)	3 g/kg
	Frozen meat and game poultry products (in one piece, cut or minced)	950 mg/kg
Mineral oil (medium and low viscosity, class I) 905e	Dried fruit	5 g/kg
	Confectionery	2 g/kg
	Bread and bakery products	3 g/kg
Polyvinyl alcohol (E1203)	Frozen fish (as part of glaze solutions)	in accordance with TD
	As part of films and coatings for surface treatment of sausage products, sausages, cheeses and coatings thereof	in accordance with TD
	Biologically active food additives in capsules and tablets	18 g/kg
Hydrogenated poly-1-decene (E907)	Sugary confectionery	2 g/kg
	Dried fruit	2 g/kg
Polyethylene glycol (1521)	Fresh fruit	in accordance with TD
	See Annexes No. 12 and 15	
Oxidized polyethylene wax (E914) Montanic (octacosanoic) acid esters (E912)	Fresh citrus fruit, melon, mango, papaya, avocado, pineapple	in accordance with TD
Pullulan (E1204)	Biologically active food additives in capsules and tablets	in accordance with TD
	Microsweets in the form of breath-freshening films	in accordance with TD

**Annex 7**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Acids and Acidity Regulators**

Food additive (index E)	Food products	Maximum level in products
Adipic acid (E355) and its adipate salts: with base NH <sub>4</sub> (E359), K (E357), Na (E356) – separate or combined, in terms of the acid	Dry flavored desserts	1 g/kg
	Jelly-like desserts	6 g/kg
	Powder-like mixtures for production of beverages in the home conditions	10 g/kg
	Fillings, finishing coatings for rich bakery products and flour confectionery	2 g/kg
Sodium aluminium phosphate acidic (E541)	Flour confectionery (only for rich bakery products and sponge cakes)	1 g/kg in terms of aluminium
	See Annexes No. 5	
Tartaric acid (E334) and its tartrate salts: with base K (E336), Ca (E354), Na (E335), Na-K (E337)	In accordance with TD	in accordance with TD
	See Annexes No. 18	
Metatartaric acid (E353)	Wines	Under the formulations agreed upon with the authorized body
Ammonium hydroxide (E527)	In accordance with TD	in accordance with TD
Potassium hydroxide (E525)	In accordance with TD	in accordance with TD
Calcium hydroxide (E526)	In accordance with TD	in accordance with TD
Magnesium hydroxide (E528)	In accordance with TD	in accordance with TD
Sodium hydroxide (E524)	In accordance with TD	in accordance with TD
Gluconic acid (E574) and its gluconate salts: with base K (E577), Ca (E578), Mg (E580), Na (E576) and Glucono delta-lactone (E575)	In accordance with TD	in accordance with TD
	See Annexes No. 4, 5 and 12	
Ferrous gluconate (E579)	See Annexes No. 17	
Citric acid (E330) and its citrate salts: with base NH <sub>4</sub> (E380), K (E332), Ca (E333), Na (E331) ferrum ammonium citrate (E381)	In accordance with TD	in accordance with TD
	No. 4, 12 and 18	
	See Annexes No. 3	
Lactic acid (E270) and its lactate salts:	In accordance with TD	in accordance with TD

with base NH <sub>4</sub> (E328), K (E326), Ca (E327), Mg (E329), Na (E325)	See Annexes No. 4 and 5	
ferrous lactate (E585)	See Annexes No. 17	
Calcium oxide (E529)	In accordance with TD	in accordance with TD
Sulphuric acid (E513) and its sulphate salts: with base NH <sub>4</sub> (E517), K (E515), Ca (E516), Mg (E518), Na (E514)	See Annexes No. 5	
	In accordance with TD	in accordance with TD
sulphates: with base Al (E520), Al-NH <sub>4</sub> (E523), Al-K (E522), Al-Na (E521) – separate or combined in terms of aluminium	Egg white	30 mg/kg
	Sugar glazed (candied), crystallized and sugared fruit and vegetables	200 mg/kg
Hydrochloric acid (E507) and its salts: ammonium chloride (E510), potassium chloride (E508), calcium chloride (E509), magnesium chloride (E511)	In accordance with TD	in accordance with TD
	See Annexes No. 5 and 12	
Carbonic acid (carbon dioxide, E290) gas, liquid, solid and its salts: ammonium carbonates (E503), potassium carbonates (E501), calcium carbonate (E170), magnesium carbonates (E504), sodium carbonates (E500)	In accordance with TD	in accordance with TD
	See Annexes No. 3, 11, 12, 15 and 17	
Acetic acid (E260) and its acetate salts: with base NH <sub>4</sub> (E264), K (E261), Ca (E263), Na (E262)	In accordance with TD	in accordance with TD
	See Annexes No. 8, 12, and 15	
zinc acetate (E650)	See Annexes No. 16	
Phosphoric acid (E338) and food phosphates: potassium phosphates (E340), calcium phosphates (E341, E542), magnesium phosphates (E343), sodium phosphates (E339), diphosphates (E450), triphosphates (E451), polyphosphates (E452)	See Annexes No. 3, 5, 12 and 15	
Fumaric acid (E297), sodium fumarate (E365) – separate or combined in terms of fumaric acid	Wines	Under the formulations agreed upon with the authorized body
	Fillings, finishing coatings for rich bakery products and flour confectionery	2.5 g/kg
	Sugary confectionery	1 g/kg

	Desserts: jelly, fruit flavored, dry powder-like, dessert mixtures	4 g/kg
	Soluble powder-like fruit bases for beverages	1 g/kg
	Soluble products for production of flavored tea and herbal tea (infusion)	1 g/kg
	Chewing gum	2 g/kg
Malic acid (E296) and its malate salts: with base K (E351), Ca (E352), Na (E350)	In accordance with TD	in accordance with TD
	See Annexes No. 18	
Succinic acid (E363) and its succinate salts: with base K Ca Na – separate or combined, in terms of succinic acid	Desserts	6 g/kg
	Powder-like mixtures for production of nonalcoholic beverages in the home conditions;	3 g/kg
	Soups and broths (concentrates);	5 g/kg
	Vodka	100 mg/l

**Annex 8**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Preserving Agents**

Food additive (index E)	Food products	Maximum level in products
Benzoic acid (E210) and its benzoate salts: with base sodium benzoate (E211), potassium benzoate (E212), calcium benzoate (E213) – separate or combined in terms of benzoic acid	Margarines, spreads, creams based on vegetable oil formulations with fat content of 60% and more	500 mg/kg
	Margarines, spreads, creams based on vegetable oil formulations with fat content of less than 60%	1 g/kg
	Black olives (olives) and products therefrom	500 mg/kg
	Boiled table beet	2 g/kg
	Tomato products (except for juice products)	1g/kg
	Jam, fruit jelly, jelly, marmalade with low sugar content and sugarless of paste-like consistency	500 mg/kg
	Sauces based on vegetable oil formulations, mayonnaise sauces, creams based on vegetable oil formulations	500 mg/kg
	Emulsified sauces based on vegetable oil formulations, mayonnaises, dressings, mayonnaise sauces creams based on vegetable oil formulations with fat content of less than 60%	1 g/kg
	Non-emulsified sauces	1 g/kg
	Liquid egg products (egg white, egg yolk, whole egg)	5 g/kg
	Flavored non-alcoholic beverages	150 mg/kg
	Non-alcoholic beer in kegs (barrels)	200 mg/kg
	Alcoholic beverages with alcohol content of less than 15 volume %	200 mg/kg
	Jelly for aspics	500 mg/kg
	Liquid concentrates: tea, fruit, from herbal infusions	600 mg/kg
	Milk-based, thermally non-processed desserts	300 mg/l
	Marinated, salted or oiled vegetables (except for black olives)	2 g/kg
Sugar glazed (candied) fruit and vegetables	1 g/kg	



	Chewing gum	1.5 g/kg
	Fish semi-preserved foods, including caviar	2 g/kg
	Salted and dried fish	200 mg/kg
	Crustaceans and mollusca boiled	1 g/kg
	Ready-to-serve salads	1.5 g/kg
	Mustard	1 g/kg
	Spices and seasonings	1 g/kg
	Thin soups and broths, except for preserved soups and broths	500 mg/kg
	Food products of dietetic therapeutic and protective nutrition, (except for child products), dietetic mixtures for body weight reduction	1.5 g/kg
	Sugary confectionery, sweets, chocolate with filling	1.5 g/kg
	Dried fruit	800 mg/kg
	Decorative ornaments, including for rich bakery products, decorative coatings (not fruit), sweet sauces	1,500 mg/kg
	Surface treatment of sausage products, sausages, cheeses and casings, as well as part of films and coatings	in accordance with TD
	Dried meat products (surface treatment)	in accordance with TD
	Flavorings	1.5 g/kg
	Analogues of seaweed-based fish product	500 mg/kg
	Beer in kegs with added (over 0.5%) sugar and/or fruit juice or/and juice concentrate for the purpose of fermentation	200 mg/kg
	Biologically active food additives, liquid	2 g/kg
	Biologically active food additives, powder-like, containing preparations of vitamin A or vitamins A and D	1 g/kg (In ready-prepared products)
Dehydroacetic acid (E265), sodium dehydroacetate (E266) – separate or combined in terms of dehydroacetic acid	Surface treatment sausage products, sausages, cheeses and casings, as well as part of films and coatings	5 mg/kg (residual quantity in a product)
Dimethyl dicarbonate (E242)	Flavoring-based non-alcoholic beverages, nonalcoholic wines, tea (weak) and herbal infusions, coffee, coffee substitutes and other hot grain beverages (except for cocoa)	250 mg/l residues shall not be admitted for processing
	Apple and pear cider, fruit wines, low-alcohol wines, wine-based beverages	250 mg/l residues shall not be admitted for processing
Diphenyl (biphenyl) – (E230)	Citrus fruit, surface treatment	70 mg/kg

Formic acid (E236)	Flavored non-alcoholic water-based beverages, including specialized beverages (performance, tonic, including energy, “electrolytic” beverages, etc.)	100 mg/l
	Emulsified sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces	200 mg/kg
Natamycin (pimaricin, delvovid) – (E235)	Surface treatment: raw smoked, as well as smoked and cooked cheeses and sausages	1 mg/dm <sup>2</sup> in the layer up to 5 mm deep
Nisin (E234)	Semolina or tapioca puddings and similar products	3 mg/kg
	Aged and processed cheeses	12.5 mg/kg
	Curd cheeses and cream cheeses (mascarpone type)	10 mg/kg
	Liquid egg products pasteurized (egg white, egg yolk, whole egg)	6.25 mg/l
Potassium nitrate (E252), sodium nitrate (E251) – separate or combined in terms of NaNO <sub>3</sub> (residual quantities)	Salted, boiled and smoked sausages and meat products; meat preserves	250 mg/kg
	Hard, semi-hard and soft cheeses	50 mg/kg
	Milk-based cheese substitutes;	50 mg/kg
	Salted and marinated herring and sprats	200 mg/kg (like NaNO <sub>2</sub> , including the resulting nitrite)
Potassium nitrite (E249), sodium nitrite (E250) – separate or combined in terms of NaNO <sub>2</sub> (residual quantities) <sup>1</sup>	Raw smoked, salted smoke and dried sausages and meat products	50 mg/kg
	Boiled sausages and other boiled meat products	50 mg/kg
	Meat preserves	50 mg/kg
Methyl parasept (E218), Methyl parasept, sodium salt (E219), Ethyl parasept (E214), Ethyl parasept, sodium salt (E215) – parabens – separate or combined in terms of benzoic acid	Jellies covering meat products (boiled, salted, dried), purees	1 g/kg
	Dry breakfast cereals (snacks) based on cereal grains and potatoes, covered with nuts	300 mg/kg
	Sugary confectionery, sweets, chocolate with filling	300 mg/kg
	Dried meat products (surface treatment)	in accordance with TD
Propionic acid (E280) and its propionate salts: with base K (E283), Ca (E282), Na (E281) – separate or combined in terms of propionic acid	Cut bread (white and rye) prepacked for long-term storage	3 g/kg
	Bread of reduced caloric value, rich baked goods and flour confectionery, pita, prepacked	2 g/kg
	Bread (white) prepacked for long-term storage, paskha, Christmas Easter cakes	1 g/kg
	Cheese and cheese substitutes (for surface treatment)	in accordance with TD
Sulphurous acid (sulphur dioxide E220) and	Dried cabbage	800 mg/kg

the salts:  
 potassium hydrogen sulphite (bisulphite) E228,  
 calcium hydrogen sulphite E227,  
 sodium hydrogen sulphite E222,  
 potassium metabisulphite E224,  
 sodium metabisulphite E223,  
 potassium sulphite E225,  
 calcium sulphite E226,  
 sodium sulphite E221 –  
 separate or combined in terms of sulphur dioxide<sup>2</sup>

Skinned potatoes (processing with browning inhibitors)	50 mg/kg
Products from potatoes, including frozen; dry mashed potatoes	100 mg/kg
Dried potatoes granulated (grits)	400 mg/kg
Dried white vegetables	400 mg/kg
Frozen white vegetables	50 mg/kg
Grated onions, shallots, garlic (pulp)	300 mg/kg
Sulfited substance tomato paste (dry substance content – 30%) (except for the tomato paste for production of juice products)	400 mg/kg
Dried tomatoes	200 mg/kg
Mushroom products, including frozen	50 mg/kg
Dried mushrooms	100 mg/kg
Marinated (vinegar), pickled or oiled vegetables and fruits (except for the black olives)	100 mg/kg
Sugar glazed (candied), fruit, vegetables, candied fruits, angelica	100 mg/kg
Jams, fruit jellies, jelly, marmalade with low sugar content and sugarless marmalade and other similar products	50 mg/kg
Jams, jelly, fruit jelly, marmalade produced using sulfited fruits and berries	100 mg/kg
Fruit fillings (fruit-based)	100 mg/kg
Lemon juice based seasonings	200 mg/kg
Lemon, sliced, pasteurized	250 mg/kg
Restored (rehydrated) dried fruit, pasteurized	100 mg/kg
Dried fruits: -apricots, peaches, grapes (raisins), plums, figs -bananas -apples and pears -other, including in-shell nuts	2 g/kg 1 g/kg 600 mg/kg 500 mg/kg
intermediate products (pulp) for industrial processing: -strawberries, raspberries -cherries -other berries and fruit	2 g/kg 3 g/kg 1.5 g/kg
Sugar, including white sugar (sand sugar), etc.	15 mg/kg
High-glucose dry treacle	20 mg/kg
Treacle and molasses	70 mg/kg
Other sugars	40 mg/kg
Sweets and sugary confectionery based on	50 mg/kg

high-glucose treacle	
Dry sponge cake	50 mg/kg
Starches (except for starches for child products);	50 mg/kg
Dry breakfast cereals (snacks) based on grains and potatoes	50 mg/kg
Sago, pearl barley	30 mg/kg
Meat sausage products with vegetable or grain ingredients content of over 4%;	450 mg/kg
Dried and salted fish	200 mg/kg
Crustaceans and cephalopods: -fresh, frozen	150 mg/kg for the edible part
- fresh and frozen Penaeidae, Solenoceridae and Aristaeidae crustaceans	300 mg/kg for the edible part
-boiled	50 mg/kg for the edible part;
-crustaceans Penaeidae, Solenoceridae, Aristaeidae boiled	270 mg/kg for the edible part
Concentrates based on fruit juices containing at least 2.5% of barley water	350 mg/kg
Other concentrates based on fruit juices or strained fruits	250 mg/kg
Flavored non-alcoholic beverages based on fruit juices	20 mg/kg residual quantities from concentrates
Non-alcoholic beverages containing high-glucose treacle (at least 235 g/l)	50 mg/kg
Beer, including low-alcohol and non-alcoholic beer	20 mg/kg
Beer of secondary fermentation in barrels	50 mg/kg
Grape wines	300 mg/kg
Fruit wines, including sparkling wines, cider; honey wines	200 mg/kg
Non-alcoholic wines	200 mg/kg
Vinegar produced by fermentation	170 mg/kg
Mustard	250 mg/kg
Fruit mustard	100 mg/kg
Jellifying fruit extracts, liquid pectin (for sale to consumers)	800 mg/kg
Gelatin	50 mg/kg
Grated horseradish	800 mg/kg
Fried ginger	150 mg/kg

	Dried coconuts	50 mg/kg
	Flavored syrups for milk shakes, ice-cream, syrups for thick pancakes, pancakes, Easter cakes, etc.	40 mg/kg
	Protein-based analogues of meat, fish and crab products	200 mg/kg
	Marinated nuts	50 mg/kg
	Vacuum-packed sweet corn	100 mg/kg
	Alcoholic beverages (distilled) containing whole pears	50 mg/kg
	Table grapes	10 mg/kg
	Fresh lychees	10 mg/kg for the edible part
	Blueberry ( <i>Vaccinium corybosum</i> only)	10 mg/kg
	Cinnamon ( <i>Cinnamomum ceylanicum</i> only)	150 mg/kg
	See Annex No.4	
Sorbic acid (E200) and its sorbates salts: with base Na (E201), K (E202), Ca (E203) – separate or combined, in terms of sorbic acid	Fresh cheeses with fillings; sliced and pre-packed cheeses	1 g/kg
	Processed cheeses	2 g/kg
	Cheeses and replacers thereof (surface treatment)	in accordance with TD
	Curd products, paskha	1 g/kg
	Black olives (olives) and products therefrom	1 g/kg
	Mashed potatoes and frying slices	2 g/kg
	Preserved and pasteurized fruit and vegetable products, including sauces, except for purees, mousses, stewed fruit, salads, juice products and similar products	1 g/kg
	Tomato products (except for juice products)	1 g/kg
	Dried fruit	1 g/kg
	Grain products produced by the extrusion technology	2 g/kg
	Bread, bakery and flour confectionery, including of reduced caloric value, prepacked, packed for long-term storage	2 g/kg
	Analogues of meat and fish products, crustacean and squid products; protein-based cheese substitutes	2 g/kg
	Dried, concentrated and frozen egg products	1 g/kg
	Liquid egg products (egg white, egg yolk, whole egg)	5 g/kg
Spreads, margarines, emulsified sauces based on vegetable oil formulations, mayonnaises,	1 g/l	

dressings, mayonnaise sauces, creams based on vegetable oil formulations with fat content of 60% and over	
Spreads, margarines, emulsified sauces based on vegetable oil formulations, mayonnaises, dressings, mayonnaise sauces, creams based on vegetable oil formulations with fat content of less than 60%	2 g/l
Non-emulsified sauces	1 g/kg
Flavored non-alcoholic beverages	300 mg/l
Flavored wine-based beverages	200 mg/l
Ordinary, fruit, honey wines, cider, nonalcoholic wines	300 mg/kg
Alcoholic beverages with alcohol content of less than 15 volume %	200 mg/kg
Jelly for aspics	1 g/kg
Flavored syrups for milk shakes, ice-cream, etc., syrups for thick pancakes, Easter cakes	1 g/kg
Meat dumpling fillings (ravioli), trickled pastries	1 g/kg
Surface treatment sausage products, sausages, cheeses and casings, as well as part of films and coatings	in accordance with TD
Thermally non-processed milk-based desserts;	300 mg/l
Marinated, salted or oiled vegetables (except for black olives)	2 g/kg
Sugar glazed (candied) fruit and vegetables	1 g/kg
Jam, fruit jelly, jelly, marmalade with low sugar content and sugarless of paste-like consistency	1 g/kg
Fruit and berry, as well as fruit and fatty fillings for flour confectionery	1 g/kg
Chewing gum	1.5 g/kg
Semi-preserved fish foods, including caviar	2 g/kg
Salted and dried fish	200 mg/kg
Boiled crustaceans and mollusca	2 g/kg
Ready-to-serve salads	1.5 g/kg
Mustard	1 g/kg
Spices and seasonings	1 g/kg
Food products of dietetic therapeutic and protective nutrition, (except for child products), dietetic mixtures for body weight reduction	1.5 g/kg
Liquid concentrates: tea, fruit, from herbal	600 mg/kg

	infusions	
	Jelly covering meat products (boiled, salted, dried); purees	1 g/kg
	Thin soups and broths, except for preserved soups and broths	500 mg/kg
	Dry breakfast cereals (snacks) based on cereal grains and potatoes covered with nuts	1 g/kg
	Sugary confectionery, sweets, chocolate with filling	1.5 g/kg
	Dried meat products (surface treatment)	in accordance with TD
	Flavorings	1.5 g/kg
	Analogues of seaweed-based fish products	1 g/kg
	Beer in kegs with added (over 0.5%) sugar and/or fruit juice or and juice concentrate for the purpose of fermentation	200 mg/kg
	Fresh unpeeled citrus fruit (surface treatment)	20 mg/kg
	Biologically active food additives, liquid	2 g/kg
	Dry biologically active food additives, sources of vitamin A or vitamins A and D in various combinations	1 g/kg In ready-prepared products
Sorbic acid and sorbates (E200, E201, E202, E203) combined with benzoic acid and benzoates (E210, E211, E212, E213) – separate or combined, in terms of a relevant acid	Thermally non-processed milk-based desserts	300 mg/l
	Spreads, margarines, mayonnaises, creams based on vegetable oil formulations, emulsified sauces, dressings, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations with fat content of 60% and over	1 g/kg including benzoates not over 500 mg/kg
	Spreads, margarines, mayonnaises, creams based on vegetable oil formulations, emulsified sauces, dressings, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations with fat content of less than 60%	2 g/kg including benzoates not over 1 g/kg
	Marinated, salted or oiled vegetables (except for black olives)	2 g/kg
	Tomato products (except for juice products)	1 g/kg
	Black olives (olives) and products therefrom;	1 g/kg including benzoates not over 500 mg/kg
	Sugar glazed (candied) fruit and vegetables;	1 g/kg
	Jam, fruit jelly, jelly, marmalade with low sugar content and sugarless of paste-like consistency	1 g/kg including benzoates not over 500 mg/kg
	Chewing gum	1.5 g/kg

Semi-preserved foods from fish, including caviar	2 g/kg
Salted and dried fish	200 mg/kg
Crustaceans and mollusca boiled	2 g/kg including benzoates not over 1 g/kg
Emulsified sauces based on vegetable oil formulations, mayonnaises, dressings, mayonnaise sauces, creams based on vegetable oil formulations with fat content of 60% and over	1 g/kg including benzoates not over 500 mg/kg;
Emulsified sauces based on vegetable oil formulations, mayonnaises, dressings, creams based on vegetable oil formulations with fat content of less than 60%	2 g/kg including benzoates not over 1 g/kg;
Non-emulsified sauces	1 g/kg
Liquid egg products (egg white, egg yolk, whole egg)	5 g/kg
Ready-to-serve salads	1.5 g/kg
Mustard	1 g/kg
Spices and seasonings	1 g/kg
Food products of dietetic therapeutic and protective nutrition (except for child products), dietetic mixtures for body weight reduction	1.5 g/kg
Flavored non-alcoholic beverages	400 mg/kg including sorbates not over 250 mg/kg, benzoates not over 150 mg/kg;
Alcoholic beverages with alcohol content of less than 15 volume %	400 mg/kg including not over 200 mg/kg of each additive;
Liquid concentrates: tea, fruit, from herbal infusions	600 mg/kg
Thin soups and broths, except for preserved	500 mg/kg
Sugary confectionery, sweets, chocolate with filling	1.5 g/kg
Dried meat products (surface treatment)	in accordance with TD
Flavorings	1.5 g/kg
Beer in kegs with added (over 0.5%) sugar and (or) fruit juice or and juice concentrate for the purpose of fermentation	400 mg/kg
Biologically active food additives, powder-like containing preparations of vitamin A or vitamins A and D	1 g/kg (In ready-prepared products)
Biologically active food additives, liquid	2 g/kg



Sorbic acid and sorbates (E200, E201, E202, E203) combined with parabens (E214, E215, E218, E219) – separate or combined, in terms of sorbic and benzoic acids, respectively	Jelly covering meat products (boiled, salted, dried), purees	1 g/kg
	Dry breakfast cereals (snacks) based on cereal grains and potatoes covered with nuts	1 g/kg including parabens not over 300 mg/kg
	Sugary confectionery, sweets, chocolate with filling	1.5 g/kg including parabens not over 300 mg/kg;
	Dried meat products (surface treatment)	in accordance with TD
Sorbic acid and sorbates (E200, E201, E202, E203) combined with benzoic acid and benzoates (E210, E211, E212, 213) and parabens (E214, E215, E218, E219) – separate or combined, in terms of sorbic and benzoic acids, respectively	Dried meat products (surface treatment)	in accordance with TD
	Sugary confectionery, sweets, chocolate with filling	1.5 g/kg including parabens not over 300 mg/kg;
Acetic acid (E260) and its acetate salts: with base K (E261), Ca (E263), Na (E262)	In accordance with TD	in accordance with TD
	See Annex No. 7, 12, and 15	
orto-Phenylphenol (E231), sodium o-Phenylphenol (E232) – separate or combined in terms of orto-Phenylphenol	Citrus fruit (surface treatment)	12 mg/kg

Note:

<sup>1</sup> – the maximum level of potassium and sodium nitrites in food products shall mean the residual quantity thereof which may be detected in products acquired in retail trade network. Upon simultaneous use of nitrates and nitrites as part of curing mixtures the maximum level of nitrites in such products shall include nitrites produced from nitrates, as well.

**Annex 9**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Food Products, which cannot be Produced with the Use of Coloring Agents<sup>1</sup>**

It shall not be allowed to use coloring agents upon production of the following food products:

- 1) non-processed food products;
  - 2) pasteurized or heat-treated milk, non-flavored chocolate milk;
  - 3) non-flavored cultured milk products, buttermilk;
  - 4) non-flavored preserved, concentrated and condensed milk and cream;
  - 5) fresh, dried and preserved vegetables (except for the black olives), fruit, mushrooms, including purees and pastes;
  - 6) eggs and egg products (coloring agents specified in Annex 11 hereto shall not be allowed for coloring of paskha egg shells);
  - 7) meat, poultry, game, fish, crustaceans, mollusks, whole or cut in pieces, or ground, including filling, without addition of other ingredients, raw;
  - 8) flour, groats, starches;
  - 9) fresh, dried, preserved fruit, vegetables, mushrooms (including pastes and purees);
- juice products (except for juice-containing beverages), pastes, purees;
- 10) tomato paste and sauce, preserved tomatoes;
  - 11) sugar, glucose, fructose, lactose;
  - 12) honey;
  - 13) cocoa products, chocolate ingredients in confectionary and other products;
  - 14) pasta;
  - 15) roasted coffee, chicory, tea and extracts therefrom; tea, vegetable and fruit preparations for infusions and soluble mixtures thereof;
  - 16) malt and malt beverages;
  - 17) spices and mixtures therefrom;
  - 18) table salt, salt substitutes;
  - 19) bottled potable water;
  - 20) wine, fruit alcohol, fruit alcoholic beverages and wine vinegar;
  - 21) butter and fat of animal origin, straight-run and cold-pressed vegetable oils;
  - 22) non-flavored aged and non-aged cheeses;
  - 23) bread;
  - 24) specific food products for nutrition of healthy and sick children of up to three years of age.

Note:

<sup>1</sup> – except for the events specified in Annexes 10 and 11 to the present Technical Regulation.

**Annex 10**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Food Products with Certain Coloring Agents Allowed for Use in their Production**

Food products name	Food additive name	Maximum level in products
Malt bread	Caramel (E150 a, b, c, d)	in accordance with TD
Beer, cider	Caramel (E150 a, b, c, d)	in accordance with TD
Cow (dairy) butter, including with reduced fat content; rendered cow butter	Carotenes (E160a)	in accordance with TD
Margarines, specialty fats, milk fat replacers, cocoa butter equivalents, SOS cocoa butter improvers, POP cocoa butter substitutes, nonlauric untemperable cocoa butter substitutes, lauric untemperable cocoa butter substitutes	Annato (E160b, bixin, norbixin)	10 mg/kg <sup>1</sup>
	Carotenes (E160a)	25 mg/kg
	Curcumin (E100)	5 mg/kg (shall be determined by the total curcumin)
Vegetable oil and butter spreads, vegetable fat spreads, rendered vegetable oil and butter mixtures, rendered vegetable fat mixtures	Curcumin (E100)	10 mg/kg
	Riboflavins (E101 i, ii),	300 mg/kg
	Carmines (E120)	500 mg/kg
	Caramel (E150 b, c, d)	500 mg/kg
	Carotenes (E160a, i)	1000 mg/kg
	Carotenes (E160a, ii)	35 mg/kg
	Carotenes (E160a, iii)	
	beta-apo-8'-Carotenal (c30) (e160e)	
	beta-apo-8'-Carotenoic acid (c30) of ethyl ester (E160f)	
Flavored processed cheeses	Annato (E160b, bixin, norbixin)	100 mg/kg
Some types of cheeses produced under the formulations agreed upon with the authorized body	Annato (E160b, bixin, norbixin)	15 mg/kg <sup>1</sup>
	Annato (E160b, bixin, norbixin)	50 mg/kg <sup>1</sup>
	Carmines (E120)	125 mg/kg
	Anthocyanins (E163)	in accordance with TD
	Carotenes (E160a)	in accordance with TD
	Paprika extract, capsanthin, capsorubin (E160c)	in accordance with TD
	Vegetable carbon (E153)	in accordance with TD
	Chlorophyll (E140) and copper complexes thereof (E141 i, ii)	in accordance with TD
Vinegar	Caramel (E150 a, b, c, d)	in accordance with TD
Whisky, grain and wine alcohol, rum, brandy	Caramel (E150 a, b, c, d)	in accordance with TI

Flavored wines and flavored wine-based beverages produced under the formulations agreed upon with the authorized body	Caramel (E150 a, b, c, d)	in accordance with TD
Bitter soda beverages and bitter wines produced under the formulations agreed upon with the authorized body	Caramel (E150 a, b, c, d)	in accordance with TD
	Curcumin (E100), Riboflavins (E101 i, ii), Tartrazine (E102), Ponseau 4R (E124), Azorubine (E122), Quinoline yellow (E104), Allura red AC (E129), Carmines (E120), Sunset yellow FCF (E110) – separate or combined	100 mg/l
Vinegar, pickled or oiled vegetables, except for olives	Anthocyanins (E163)	in accordance with TD
	Carotenes (E160a)	in accordance with TD
	Beet red (E162)	in accordance with TD
	Riboflavins (E101)	in accordance with TD
	Caramel (E150 a, b, c, d)	in accordance with TD
	Chlorophylls, chlorophyllins (E140) and copper complexes thereof (E141)	in accordance with TD
Dry breakfast cereals from grains, extruded and inflated and (or) flavored with fruit	Annato (E160b, bixin, norbixin)	25 mg/kg <sup>1</sup>
	Carotenes (E160a)	in accordance with TD
	Paprika oleoresins (extracts) (E160c, capsanthin, capsorubin)	in accordance with TD
	Caramel (E150c)	in accordance with TD
	Anthocyanins (E163), Carmines (E120), Beet red (E162) – separate or combined	200 mg/kg
Jams, jelly, confitures, including with slices of fruit and other similar products of fruit processing, including low-calorie products	Anthocyanins (E163)	in accordance with TD
	Carotenes (E160a)	in accordance with TD
	Beet red (E162, betanin)	in accordance with TD
	Curcumin (E100)	in accordance with TD
	Paprika extract, capsanthin, capsorubin (E160c)	in accordance with TD
	Caramel (E150 a, b, c, d)	in accordance with TD
	Chlorophylls and chlorophyllins (E140) and copper complexes thereof (E141)	in accordance with TD
	Sunset yellow FCF (E110), Quinoline yellow (E104), Green S (E142), Carmines (E120), Lycopene (E160d), Lutein (E161b), Ponseau 4R (E124) –	100 mg/kg

	separate or combined	
Sausages, small sausage, boiled sausages, purees, boiled meat	Curcumin (E100)	20 mg/kg
	Carmines (E120)	100 mg/kg
	Caramel (E150 a, b, c, d)	in accordance with TD
	Carotenes (E160a)	20 mg/kg
	Paprika extract, capsanthin, capsorubin (E160c)	10 mg/kg
	Beet red (E162, betanin)	in accordance with TD
	Red rice	in accordance with TD
Pork smoked and dried sausages, including with pepper (Chorizo and Salchichon types)	Carmines (E120)	200 mg/kg
	Ponseau 4R (E124)	250 mg kg
	Red rice	in accordance with TD
Sausages with grains and beans content of over 6%; ground meat products (urban meat) with grains, beans and vegetables content of over 4%	Allura red AC (E129)	25 mg/kg
	Carmines (E120)	100 mg/kg
	Caramel (E150 a, b, c, d)	in accordance with TD
Granulated dried potatoes, cereal	Curcumin (E100)	in accordance with TD
Green peas and purees therefrom, processed and preserved.	Brilliant blue FCF (E133)	20 mg/kg
	Green S (E142)	10 mg/kg
	Tartrazine (E102)	100 mg/kg

Note:

<sup>1</sup> – total carotenoids in terms of bixin or norbixin.

**Annex 11**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Coloring Agents**

Food additive (index E)	Food products	Maximum level in products
Azorubine (E122, Carmoisin), Allura red AC (E129), beta-apo-8'-Carotenal (C30) (E160e), beta-apo-8'-Carotenoic acid (c30) of ethyl ester (E160f), Sunset yellow FCF (E110), Quinoline yellow (E104), Green S (E142), Fast green FCF (143), Indigotine (E132), Carmine (E120, Cochineal), Brown HT (E155), Curcumin (E100), Lycopene (E160d), Lutein (E161b), Ponseau 4R (E124), Brilliant blue FCF (E133), Patent blue V (E131), Tartrazine (E102), Brilliant black PN (E151) – separate or combined	Flavored non-alcoholic beverages, juice-containing beverages <sup>1</sup>	100 mg/kg
	Alcoholic beverages, flavored wines and beverages based thereon, fruit wines (still and sparkling), cider	200 mg/kg
	Glazed fruit and vegetables	200 mg/kg
	Preserved (colored) fruit	200 mg/kg
	Sugary confectionery <sup>1</sup>	300 mg/kg
	Chewing gum <sup>1</sup>	300 mg/kg
	Decorative coatings	500 mg/kg
	Rich bakery and flour confectionery <sup>1</sup>	200 mg/kg
	Milk-based ice-cream, fruit ice <sup>1</sup>	150 mg/kg
	Desserts, including milk and flavored desserts <sup>1</sup>	150 mg/kg
	Flavored processed cheeses	100 mg/kg
	Sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, seasonings (dry and paste-like), pickles (small marinated vegetables), etc.	500 mg/kg
	Mustard	300 mg/kg
	Fish and crustacean pastes	100 mg/kg
	Crustaceans – boiled intermediate products	250 mg/kg
	Imitation salmon	500 mg/kg
	Surimi minced fish	500 mg/kg
	Fish caviar	300 mg/kg
	Smoked fish	100 mg/kg
	Dry snacks (snacks) based on potatoes, grains or starch, with spices: -extruded or gun-puffed spicy snacks -other spicy snack products, including nuts	200 mg/kg 100 mg/kg
Edible coatings of cheeses and sausages	in accordance with TD	

	Dietetic total mixed food rations, including for body weight control	50 mg/kg
	Biologically active food additives:	
	- solid	300 mg/kg
	- liquid	100 mg/kg
	Soups	50 mg/kg
	Meat and fish analogues based on vegetable proteins	100 mg/kg
Annato extracts (E160b, bixin, norbixin)	Margarines, spreads and rendered mixtures, specialty fats, milk fat replacers, cocoa butter equivalents, SOS cocoa butter improvers, POP cocoa butter substitutes, non-lauric untemperable cocoa butter substitutes, lauric untemperable cocoa butter substitutes, dried fats	10 mg/kg <sup>2</sup>
	Food service ice, fruit ice, fruit ice-cream	20 mg/kg
	Decorative products and casings	20 mg/kg <sup>2</sup>
	Rich bakery and flour confectionery	10 mg/kg <sup>2</sup>
	Liqueurs and fortified beverages with alcohol content of less than 15 volume %	10 mg/kg <sup>2</sup>
	Cheeses	15 mg/kg <sup>2</sup>
	Desserts, including milk-based ice-cream	10 mg/kg
	Cheese coatings (edible)	20 mg/kg <sup>2</sup>
	Smoked fish	10 mg/kg <sup>2</sup>
	Dry snacks (snacks) based on potatoes, grains or starch, with spices - extruded or gun-puffed spicy snacks - other spicy snack products, including nuts	200 mg/kg 100 mg/kg
	Dry breakfast cereals from grains, extruded and gun-puffed and (or) flavored with fruit,	25 mg/kg <sup>2</sup>
	Chewing gum	300 mg/kg
Anthocyanins (E163),	In accordance with TD <sup>3</sup>	in accordance with TD
Titanium dioxide (E171), Calcium carbonate (E170), Carotenes (E160a), Beet red (E162, betanin), Paprika extract, capsanthin, capsorubin (E160c), Iron oxides and hydroxides (E172), Riboflavin (E101), Caramel (E150a, E150b, E150c, E150d), Tannins, food grade (E181), Vegetable carbon (E153), Chlorophylls and chlorophyllins (E140), Copper complexes of chlorophylls and chlorophyllins (E141)	See Annexes No. 3 and 7	

Canthaxanthin (E161g)	Strasbourg sausages	15 mg/kg
Red rice	Meat products	in accordance with TD
Silver (E174), Gold (E175)	Sugary confectionery, chocolate (surface of decorative ingredients of confectionary sets, cakes, etc.)	in accordance with TD
	Liqueurs, vodka	in accordance with TD

Note:

<sup>1</sup> – for non-alcoholic and juice-containing beverages, confectionary and bakery products, desserts, ice-cream and fruit ice the use of each of Azorubine (E122), Sunset Yellow FCF (E110), Brown HT (E155), Ponceau 4R (E124) coloring agents must not exceed 50 mg/kg.

<sup>2</sup> – total carotenoids in terms of bixin or norbixin.

<sup>3</sup> – it shall be allowed to use the specified coloring agents for productions of all food products except for the products specified in Annex 9, and as for the food products specified in Annex 10, coloring agents content shall be regulated.



**Annex 12**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards of the Application of Carrying Agents**

<b>Food additive (index E)</b>	<b>Food products</b>	<b>Maximum level in products</b>
Agar (E406)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Alginic acid (E400) and its alginate salts: with base NH <sub>4</sub> (E403), K (E402), Ca (E404), Na (E401)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Aluminum silicate (E559, kaolin)	Coloring agents	5 g/100 g
	See Annex No. 3	
Potassium aluminum silicate (E555)	Coloring agents titanium dioxide (E170) and iron oxides and hydroxides (E171)	not over 90% as related to the coloring agent
Calcium acetates (E263)	In accordance with TD	in accordance with TD
	See Annex No. 7, 8, 15	
Benzyl alcohol (E1519) – in food products (from all sources) both ready-prepared, and restored in accordance with the manufacturer’s instruction	Flavorings:	in accordance with TD
	-for liqueurs, flavored wines, flavored beverages and wine-based cocktails	100 mg/l
	-for confectionary, including chocolate and bakery products	250 mg/kg
Bentonite (E558)\	Coloring agents	5 g/100 g
	See Annex No. 3	
Beeswax (E901)	Coloring agents	in accordance with TD
	See Annex No. 6	
Glycerol (E422)	In accordance with TD	in accordance with TD
	See Annex No. 5	
Glycine (E640) and its sodium salt	In accordance with TD	in accordance with TD
	See Annex No. 16	
Potassium gluconate (E577)	In accordance with TD	in accordance with TD
	See Annexes No. 4, 7	
Guar gum (E412)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Gym arabic (E414, acacia gum)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Diacetin (E1517, glyceryl diacetat)	See Triacetin (E1518)	
Silicon dioxide amorphous (E551)	Emulsifying agents, coloring agents	5 g/100 g
	Coloring agents titanium dioxide (E171) and iron oxides and hydroxides (E172)	not over 90% as related to the coloring agent
	See Annex No. 3	
Fatty acids (E570)	Glazing agents for fruits	in accordance with TD
	See Annex No. 15	
Isomaltitol, isomalt (E953), xylitol (E967),	In accordance with TD	in accordance with TD
	See Annexes No. 13 and 15	

lactitol (E966), maltitol and maltitol syrup (E965), mannitol (E421), sorbitol (E420), erythritol (E968)		
Potassium, calcium and sodium salts of fatty acids (E470)	Glazing agents for fruits	in accordance with TD
	See Annexes No. 3 and 15	
Carob bean gum (E410)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Potassium carbonates (E501), calcium carbonate (E170), magnesium carbonates (E504)	In accordance with TD	in accordance with TD
	See Annex No. 3, 7, 11, 15 and 17	
Carrageenan (E407, E407a)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Castor oil (E1503)	In accordance with TD	in accordance with TD
	See Annex No. 3 and 6	
Konjac, Konjac flour (E425), konjac gum (E425i), konjac glucomannane (E425ii)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Modified starches: acetylated starch (E1420), acetylated distarch adipate (E1422), acetylated distarch phosphate (E1414), acetylated oxidized starch (E1451), distarch phosphate (E1412), monostarch phosphate (E1410), oxidized starch (E1404), hydroxypropyl distarch phosphate (E1442), hydroxypropyl starch (E1440), phosphated distarch phosphate (E1413), starch sodium Octenyl succinate (E1450)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Xantan gum (E415)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Lecithins (E322)	Glazing agents for fruits Coloring agents and fat-soluble antioxidants	in accordance with TD
	See Annex No. 15	
Магниевые соли fatty acids (E470)	Coloring agents and fat-soluble antioxidants	in accordance with TD
	See Annexes No. 3 and 15	
Mono- and diglycerides of fatty acids (E471)	Glazing agents for fruits, Coloring agents and fat-soluble antioxidants	in accordance with TD
Pectins (E440)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Polydextroses (E1200)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Polyvinylpyrrolidone (E1201) Polyvinylpolypyrrolidone (E1202)	Sweetening agents	in accordance with TD
	See Annex No. 15	
Polydimethylsiloxane (E900)	Glazing agents for fruits	in accordance with TD
	See Annexes No. 3 and 15	
Polyoxyethylene sorbitans (polyoxyethylene sorbitan esters of fatty acids, tweens): polyoxyethylene sorbitan (20) monolaurate (E432, tween 20), polyoxyethylene sorbitan (20) monooleate (E433, tween 80), polyoxyethylene sorbitan (20) monopalmitate (E434, tween 40),	Coloring agents and fat-soluble antioxidants Glazing agents for fruits Defoaming agents	in accordance with TD
	See Annex No. 15	

polyoxyethylene sorbitan (20) monostearate (E435, tween 60), polyoxyethylene (20) sorbitan tristearate (E436, tween 65)		
Polyethylene glycol (E1521)	Table sweetening agents	10 g/kg
	See Annexes No. 6 and 15	
Propylene glycol (E1520, propane-1,2-diol)	Antioxidants Coloring agents Emulsifying agents Enzymatic preparations	1 g/kg in food products
	See Triacetin (E1518)	
Propylene glycol alginate (E405)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Calcium silicate (E552)	Emulsifying agents, coloring agents	5 g/100 g
	Coloring agents titanium dioxide (E171) and iron oxides and hydroxides (E172)	not over 90% as related to the coloring agent
	See Annex No. 3	
Sorbitans, fatty acid esters of sorbitol, (E491E495, SPANs): sorbitan monostearate (E491, SPAN 60), sorbitan tristearate (E492, SPAN 65), sorbitan monolaurate (E493, SPAN 20), sorbitan monooleate (E494, SPAN 80), sorbitan monopalmitate (E495, SPAN 40)	Coloring agents Defoaming agents Glazing agents for fruits	in accordance with TD
	See Annex No. 15	
Ammonium sulphates (E517), potassium sulphates (E515), calcium sulphates (E516), sodium sulphates (E514)	In accordance with TD	in accordance with TD
	See Annex No. 5 and 7	
Talc (E553iii)	Coloring agents	5 g/100 g
	See Annex No. 3	
Tragacanth (E413)	In accordance with TD	in accordance with TD
	See Annex No. 15	
Triacetin (E1518, glyceryl triacetate), Diacetin (E1517, glyceryl diacetat), Triethyl citrate (E1505), Propylene glycol (E1520 propane-1,2diol) – separate or combined in food products (from all sources) both ready-prepared and restored in accordance with the manufacturer’s instruction	flavorings: -for food products -for beverages except for cream liquor (for propylene glycol E1520)	in accordance with TD 3 g/kg 1 g/l.
Triethyl citrate (E1505)	See Triacetin (E1518)	
	See Annex No. 15	
Ammonium salts of phosphatidic acid (E442, ammonium phosphatides)	Antioxidants	in accordance with TD
	See Annex No. 15	
Calcium phosphates (E341)	In accordance with TD	in accordance with TD
	See Annexes No. 3, № 5, № 7 and 15	
Potassium chloride (E508), calcium chloride (E509), magnesium chloride (E511)	In accordance with TD	in accordance with TD
	See Annex No. 7	
Cellulose (E460): microcrystalline cellulose (E460i), powdered cellulose (E460ii) Modified cellulose: hydroxypropyl methyl cellulose (E464),	In accordance with TD	in accordance with TD
	See Annex No. 15	

hydroxypropyl cellulose (E463), carboxymethyl cellulose, sodium carboxymethyl cellulose, cellulose gum (E466), enzymated carboxymethyl cellulose, enzymated cellulose gum (E469), methyl cellulose (E461), methyl ethyl cellulose (E465) ethyl cellulose (E462)		
crosscarmellose (cross-linked sodium carboxymethyl cellulose), E468	Sweetening agents	in accordance with TD
beta-Cyclodextrin (E459)	In accordance with TD	1 g/kg
	See Annex No. 15	
Potassium citrates (E332), sodium citrates (E331)	In accordance with TD	in accordance with TD
	See Annexes No. 4 and 7	
Diacetyltartaric and fatty acid esters of glycerol (E472e) Acetic and fatty acid esters of glycerol (E472a) Polyglycerol esters of fatty acids (E475) Sucrose esters of fatty acids (E473) Citric acid esters of mono – diglycerides (E472c)	Coloring agents and fat-soluble antioxidants	in accordance with TD
	See Annex No. 15	

**Annex 13**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Sweetening Agents**

Food additive (index E)	Food products	Maximum level in products
Aspartame (E951)	Flavored water-based non-alcoholic beverages, beverages with juice; nectars, juice-containing beverages; beverages based on milk and milk products without addition of sugar or of reduced caloric value	600 mg/kg
	Flavored desserts based on water, grains, fruit, vegetables, milk, eggs and fat – without addition of sugar or of reduced caloric value	1 g/kg
	Snacks: flavored, ready-prepared, packed dry spicy products based on starch and nuts	500 mg/kg
	Confectionery without addition of sugar	1 g/kg
	Confectionery of reduced caloric value or without addition of sugar: - based on starch - based on cocoa, dried fruit	2 g/kg 2 g/kg
	Soft spreads, margarines	1 g/kg
	Chewing gum without addition of sugar	5.5 g/kg
	Ice-cream (except for cream and milk ice-cream), fruit ice – of reduced caloric value or without addition of sugar	800 mg/kg
	Preserved and pasteurized fruit of reduced caloric value or without addition of sugar	1 g/kg
	Jams, preserves, jelly, fruit jelly of reduced caloric value	1 g/kg
	Products derived from fruit and vegetables of reduced caloric value	1 g/kg
	Fruit and vegetable sweet and sour semi-preserved foods	300 mg/kg
	Sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, mustard, grated horseradish	350 mg/kg
	Sweet and sour semi-preserved foods from fish, fish marinades, crustaceans and mollusks	300 mg/kg
Rich bakery and flour confectionery for dietetic nutrition	1.7 g/kg	

	Dry breakfast cereals from grains with dietary fibers content of over 15% or boltings content of at least 20% of reduced caloric value or without addition of sugar	1 g /kg
	Soups of reduced caloric value	110 mg/l
	Apple and pear cider	600 mg/l
	Alcoholic beverages with alcohol content of less than 15 volume %	600 mg/l
	Beverages containing a mixture of non-alcoholic beverages and beer or cider, wines, alcoholic beverages	600 mg/l
	Non-alcoholic beer or beer with alcohol content of not over 1.2 volume %; other types of special beer	600 mg/l
	Freshening (breath-freshening) microsweets (tablets, pastilles) without addition of sugar	6 g/kg
	Beer of reduced caloric value	25 mg/l
	Dietetic products, including for body weight reduction	800 mg/kg
	Biologically active food additives:	
	-liquid	600 mg/kg
	-solid	2 g/kg
	-vitamins and mineral substances in the form of syrups and chewable tablets	5.5 g/kg
Salt of aspartame-acesulfame (E962) – the maximum content level in a product: potassium acesulfame – AC, aspartame – AS <sup>1</sup>	Flavored non-alcoholic water-based beverages, beverages with juice; nectars, juice-containing beverages; beverages based on milk and milk products without addition of sugar or of reduced caloric value	350 mg AC/l
	Flavored desserts based on water, grains, fruit, vegetables, milk, eggs and fat – without addition of sugar or of reduced caloric value	350 mg AC/kg
	Snacks: flavored, ready-prepared, packed dry spicy products based on starch and nuts	500 mg AC/kg
	Confectionery without addition of sugar	500 mg AC/kg
	Confectionery of reduced caloric value or without addition of sugar: -based on starch -based on cocoa, dried fruit	1 g AC/kg 500 mg AC/kg
	Soft spreads and margarines	1 g AS/kg
	Chewing gum without addition of sugar	2 g AC/kg
	Ice-cream (except for cream and milk ice-cream), fruit ice – of reduced caloric value or without addition of sugar	800 mg AS/kg
	Preserved and pasteurized fruit of reduced caloric value or without addition of sugar	350 mg AC/kg
	Jams, preserves, jelly, fruit jelly of reduced caloric	1 g AS/kg

	value	
	Products derived from fruit and vegetables of reduced caloric value	350 mg AC/kg
	Fruit and vegetable sweet and sour semi-preserved foods	200 mg AC/kg
	Sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, mustard, grated horseradish	350 mg AS/kg
	Sweet and sour semi-preserved foods from fish, fish marinades, crustaceans and mollusks	200 mg AC/kg
	Dry breakfast cereals from grains with dietary fibers content of over 15% or boltings content of at least 20% of reduced caloric value or without addition of sugar	1 g AS/kg
	Soups of reduced caloric value	110 mg AS/l
	Alcoholic beverages with alcohol content of less than 15 volume %	350 mg AC/l
	Apple and pear cider	350 mg AC/l
	Beverages containing a mixture of non-alcoholic beverages and beer or cider (apple, pear cider), wines, alcoholic beverages	350 mg AC/l
	Non-alcoholic beer or with alcohol content of not over 1.2 volume %; other types of special beer	350 mg AC/l
	Beer of reduced caloric value	25 mg AS/l
	Freshening (breath and throat freshening) microsweets (tablets, pastilles) without addition of sugar	2.5 g AC/kg
	Rich bakery and flour confectionery for dietetic nutrition	1 g AC/kg
	Dietetic products, including for body weight reduction	450 mg AC/kg
	Biologically active food additives: - liquid - solid - vitamins and mineral substances in the form of syrups and chewable tablets	350 mg AC/kg 500 mg AC/kg 2 g AC/kg
Acesulfame potassium (E950)	Flavored non-alcoholic water-based beverages, beverages with juice; nectars, juice-containing beverages; beverages based on milk and milk products without addition of sugar or of reduced caloric value	350 mg/kg
	Flavored desserts based on water, grains, fruit, vegetables, milk, eggs and fat – without addition of sugar or of reduced caloric value	350 mg/kg
	Snacks: flavored, ready-prepared, packed dry spicy products based on starch and nuts	350 mg/kg

Confectionery without addition of sugar	500 mg/kg
Confectionery of reduced caloric value or without addition of sugar: - based on starch - based on cocoa, dried fruit	1 g/kg 500 mg/kg
Soft spreads and margarines	1 g/kg
Chewing gum without addition of sugar	2 g/kg
Ice-cream (except for cream and milk ice-cream), fruit ice of reduced caloric value or without addition of sugar	800 mg/kg
Preserved and pasteurized fruit of reduced caloric value or without addition of sugar	350 mg/kg
Jams, preserves, jelly, fruit jelly of reduced caloric value	1 g/kg
Products derived from fruit and vegetables of reduced caloric value	350 mg/kg
Fruit and vegetable sweet and sour semi-preserved foods	200 mg/kg
Sweet and sour semi-preserved foods from fish, fish marinades, crustaceans and mollusks	200 mg/kg
Rich bakery and flour confectionery for dietetic nutrition	1 g/kg
Dry breakfast cereals from grains with dietary fibers content of over 15% or boltings content of at least 20%, of reduced caloric value or without addition of sugar	1.2 g/kg
Soups of reduced caloric value	110 mg/l
Apple and pear cider	350 mg/l
Alcoholic beverages with alcohol content of less than 15 volume %	350 mg/kg
Beverages containing a mixture of non-alcoholic beverages and beer or cider, wines and alcoholic beverages	350 mg/kg
Non-alcoholic beer or with alcohol content of not over 1.2 volume %; other types of special beer	350 mg /l
Freshening (breath-freshening) microsweets (tablets, pastilles) without addition of sugar	2.5 g/kg
Ice-cream wafers and cones without addition of sugar	2 g/kg
Sweets in the form of tablets of reduced caloric value	500 mg/kg
Beer of reduced caloric value	25 mg/l
Sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, mustard, grated horseradish	350 mg/kg



	Dietetic products, including for body weight reduction	450 mg/kg
	Biologically active food additives:	
	- liquid	350 mg/kg
	- solid	500mg/kg
	- vitamins and mineral substances in the form of syrups and chewable tablets	2 g/kg
Polyatomic alcohols – polyols: maltitol and maltitol syrup (E965), isomaltitol (E953), mannitol (E421), sorbitol (E420), xylitol (E967), lactitol (E966), erythritol (E 968)	Desserts and similar products: flavored water-based, based on milk and milk products, based on products derived from fruit and vegetables, grains, eggs, fat – of reduced caloric value or without addition of sugar	In accordance with TD
	Dry breakfast cereals based on products derived from grains – of reduced caloric value or without addition of sugar	In accordance with TD
	Ice-cream (except for cream and milk ice-cream), fruit ice – of reduced caloric value or without addition of sugar	In accordance with TD
	Jam, preserves, fruit jelly, jelly products, glazed sugar fruit, fruit products (except for the products designated for production of beverages based on fruit and juice) – of reduced caloric value or without addition of sugar	In accordance with TD
	Confectionery: sweets including caramel, cocoa products without addition of sugar Confectionery based on dried fruit and starch of reduced caloric value or without addition of sugar	In accordance with TD
	Rich bakery and flour confectionery of reduced caloric value or without addition of sugar	In accordance with TD
	Chewing gum	In accordance with TD
	Sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, mustard, grated horseradish	In accordance with TD
	Solid dietetic products and biologically active food additives	In accordance with TD
Neohesperidine dihydrochalcone (E959)	Flavored water-based non-alcoholic beverages, beverages with juice; nectars, juice-containing beverages; beverages based on milk and milk products without addition of sugar or of reduced caloric value	30 mg/kg
	Flavored desserts based on water, grains, fruit, vegetables, milk, eggs and fat without addition of sugar or of reduced caloric value	50 mg/kg
	Snacks: flavored, ready-prepared, packed dry spicy products based on starch and nuts	50 mg/kg
	Confectionery without addition of sugar	100 mg/kg
	Confectionery of reduced caloric value or without	

addition of sugar:	
- based on starch	150 mg/kg
- based on cocoa, dried fruit	100 mg/kg
Soft spreads and margarines	50 mg/kg
Chewing gum without addition of sugar	400 mg/kg
Freshening (breath-freshening) microsweets (tablets, pastilles) without addition of sugar	400 mg/kg
Ice-cream (except for cream and milk ice-cream), fruit ice of reduced caloric value or without addition of sugar	50 mg/kg
Preserved and pasteurized fruit of reduced caloric value or without addition of sugar	50 mg/kg
Jams, preserves, jelly, fruit jelly of reduced caloric value	50 mg/kg
Products derived from fruit and vegetables of reduced caloric value	50 mg/kg
Fruit and vegetable sweet and sour semi-preserved foods	100 mg/kg
Sweet and sour semi-preserved foods from fish, fish marinades, crustaceans and mollusks	30 mg/kg
Rich bakery and flour confectionery for dietetic nutrition	150 mg/kg
Dry breakfast cereals from grains with dietary fibers content of over 15% or boltings content of at least 20%, of reduced caloric value or without addition of sugar	50 mg/kg
Soups of reduced caloric value	50 mg/kg
Apple and pear cider	20 mg/l
Alcoholic beverages with alcohol content of less than 15 volume %	30 mg/kg
Beverages containing a mixture of non-alcoholic beverages and beer or cider, wines, alcoholic beverages	30 mg/kg
Non-alcoholic beer or with alcohol content of not over 1.2 volume %; other types of special beer	10 mg/l
Ice-cream wafers and cones without addition of sugar	50 mg/kg
Beer of reduced caloric value	10 mg/kg
Sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, mustard, grated horseradish	50 mg/kg
Dietetic products, including for body weight reduction	100 mg/kg
Neotame (E961)	Biologically active food additives:

- liquid	50 mg/kg
- solid	100 mg/kg
- vitamins and mineral substances in the form of syrups and chewable tablets.	400 mg/kg
Flavored non-alcoholic beverages based on water, fruit juices, milk and milk products without addition of sugar or of reduced caloric value	20 mg/kg
Flavored desserts based on water, grains, fruit, vegetables, milk, eggs and fat, without addition of sugar or of reduced caloric value	32 mg/kg
Snacks: flavored, ready-prepared, packed dry spicy products based on starch and nuts	18 mg/kg
Sweets in the form of tablets (pastilles) of reduced caloric value	15 mg/kg
Confectionery without addition of sugar	32 mg/kg
Confectionery of reduced caloric value or without addition of sugar:	
based on starch	65 mg/kg
based on cocoa, dried fruit	65 mg/kg
Soft spreads and margarines	32 mg/kg
Chewing gum without addition of sugar	250 mg/kg
Ice-cream (except for cream and milk ice-cream), fruit ice – of reduced caloric value or without addition of sugar	26 mg/kg
Ice-cream wafers and cones without addition of sugar (cream and milk ice-cream)	60 mg/kg
Preserved and pasteurized fruit of reduced caloric value or without addition of sugar	32 mg/kg
Jams, preserves, jelly, fruit jelly of reduced caloric value	32 mg/kg
Products derived from fruit and vegetables of reduced caloric value	32 mg/kg
Fruit and vegetable sweet and sour semi-preserved foods	10 mg/kg
Sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, mustard, grated horseradish	12 mg/kg
Sweet and sour semi-preserved foods from fish, fish marinades, crustaceans and mollusks	10 mg/kg
Dry breakfast cereals from grains with dietary fibers content of over 15% or boltings content of at least 20% of reduced caloric value or without addition of sugar	32 mg/kg
Soups of reduced caloric value	5 mg/l
Alcoholic beverages with alcohol content of less	20 mg/l

	than 15 volume %	
	Apple and pear cider	20 mg/l
	Beverages containing a mixture of non-alcoholic beverages and beer or cider (apple, pear cider), wines, alcoholic beverages	20 mg/l
	Non-alcoholic beer or with alcohol content of not over 1.2 volume %; other types of special beer	20 mg/l
	Beer of reduced caloric value	1 mg/l
	Freshening (breath-freshening) microsweets (tablets, pastilles) without addition of sugar	200 mg/kg
	Highly-flavored (throat) pastilles without addition of sugar	65 mg/kg
	Rich bakery and flour confectionery for dietetic nutrition	55 mg/kg
	Dietetic products for body weight reduction	26 mg/kg
	Dietetic products, including for body weight reduction	32 mg/kg
	Biologically active food additives:	
	liquid	20 mg/kg
	solid	60 mg/kg
	vitamins and mineral substances in the form of syrups and chewable tablets	185 mg/kg
	Table sweetening agents	In accordance with TI
Saccarin and its Na, K, Ca salts (E954) – separate or combined in terms of saccarin	Flavored non-alcoholic water-based beverages, beverages with juice; nectars, juice-containing beverages; beverages based on milk and milk products without addition of sugar or of reduced caloric value	80 mg/kg
	Flavored desserts based on water, grains, fruit, vegetables, milk, eggs and fat without addition of sugar or of reduced caloric value	100 mg/kg
	Snacks: flavored, ready-prepared, packed dry spicy products based on starch and nuts	100 mg/kg
	Confectionery without addition of sugar	500 mg/kg
	Confectionery of reduced caloric value or without addition of sugar:	
	- based on starch	300 mg/kg
	- based on cocoa, dried fruit	500 mg/kg
	Soft spreads and margarines	200 mg/kg
	Chewing gum without addition of sugar	1.2 g/kg
	Ice-cream (except for cream and milk ice-cream), fruit ice of reduced caloric value or without addition of sugar	100 mg/kg
	Preserved and pasteurized fruit of reduced caloric	200 mg/kg

	value or without addition of sugar	
	Jams, preserves, jelly, fruit jelly of reduced caloric value	200 mg/kg
	Products derived from fruit and vegetables of reduced caloric value	200 mg/kg
	Fruit and vegetable sweet and sour semi-preserved foods	160 mg/kg
	Sweet and sour semi-preserved foods from fish, fish marinades, crustaceans and mollusks	160 mg/kg
	Rich bakery and flour confectionery for dietetic nutrition	170 mg/kg
	Dry breakfast cereals from grains with dietary fibers content of over 15% or boltings content of at least 20%, of reduced caloric value or without addition of sugar	100 mg/kg
	Soups of reduced caloric value	110 mg/kg
	Apple and pear cider	80 mg/l
	Alcoholic beverages with alcohol content of less than 15 volume %	80 mg/kg
	Beverages containing a mixture of non-alcoholic beverages and beer or cider, wines, alcoholic beverages	80 mg/kg
	Non-alcoholic beer or with alcohol content of not over 1.2 volume %; other types of special beer	80 mg/l
	Cooling (breath-freshening) microsweets (tablets, pastilles) without addition of sugar	3 g/kg
	Ice-cream wafers and cones without addition of sugar	800 mg/kg
	Mustard	320 mg/kg
	Sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations	160 mg/kg
	Mustard, grated horseradish	320 mg/kg
	Dietetic products, including for body weight reduction	240 mg/kg
	Biologically active food additives:	
	- liquid	80 mg/kg
	- solid	500 mg/kg
	-vitamins and mineral substances in the form of syrups and chewable tablets	1.2 g/kg
Steviol glycosides (E960), stevia, leaves powder and syrup therefrom, stevia extracts	Flavored non-alcoholic water-based beverages, beverages with juice; nectars, juice-containing beverages; beverages based on milk and milk products without addition of sugar or of reduced caloric value; alcoholic beverages, bakery products	In accordance with TD

	and confectionery, fruit filling agents, cultured milk products, ice-cream, preserved fruit and berries, sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations	
Sucralose (E955, trichlorogalactosucrose)	Flavored non-alcoholic water-based beverages, beverages with juice; nectars, juice-containing beverages; beverages based on milk and milk products without addition of sugar or of reduced caloric value	300 mg/kg
	Flavored desserts based on water, grains, fruit, vegetables, milk, eggs and fat, without addition of sugar or of reduced caloric value	400 mg/kg
	Snacks: flavored, ready-prepared, packed dry spicy products based on starch and nuts	200 mg/kg
	Confectionery in the form of tablets (pastilles) of reduced caloric value	200 mg/kg
	Confectionery without addition of sugar	1 g/kg
	Confectionery of reduced caloric value or without addition of sugar: based on starch based on cocoa, dried fruit	1 g/kg 800 mg/kg
	Soft spreads and margarines	400 mg/kg
	Chewing gum without addition of sugar	3 g/kg
	Ice-cream (except for cream and milk ice-cream), fruit ice – of reduced caloric value or without addition of sugar	320 mg/kg
	Ice-cream wafers and cones without addition of sugar (cream and milk ice-cream)	800 mg/kg
	Preserved and pasteurized fruit of reduced caloric value or without addition of sugar	400 mg/kg
	Jams, preserves, jelly, fruit jelly of reduced caloric value	400 mg/kg
	Products derived from fruit and vegetables of reduced caloric value	400 mg/kg
	Fruit and vegetable sweet and sour semi-preserved foods	180 mg/kg
	Sauces, sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations	450 mg/kg
	Mustard, grated horseradish	320 mg/kg
	Mustard	140 mg/kg
	Sweet and sour semi-preserved foods from fish, fish marinades, crustaceans and mollusks	120 mg/kg
Dry breakfast cereals from grains with dietary fibers content of over 15% or boltings content of at least 20%, of reduced caloric value or without addition of	400 mg/kg	

	sugar	
	Soups of reduced caloric value	45 mg/l
	Alcoholic beverages with alcohol content of less than 15 volume %	250 mg/l
	Apple and pear cider	50 mg/l
	Beverages containing a mixture of non-alcoholic beverages and beer or cider (apple, pear cider), wines, alcoholic beverages	250 mg/l
	Non-alcoholic beer or with alcohol content of not over 1.2 volume %; other types of special beer	250 mg/l
	Beer of reduced caloric value	10 mg/l
	Freshening (breath-freshening) microsweets (tablets, pastilles) without addition of sugar	2.4 g/kg
	Rich bakery and flour confectionery for dietetic nutrition	700 mg/kg
	Dietetic products including for body weight reduction	320 mg/kg
	Dietetic products for therapeutic nutrition	400 mg/kg
	Biologically active food additives: liquid solid vitamins and mineral substances in the form of syrups and chewable tablets	240 mg/kg 800 mg/kg 2.4 g/kg
Thaumatococcus (E957)	Confectionery without addition of sugar	50 mg/kg
	Confectionery based on cocoa and dried fruit of reduced caloric value or without addition of sugar	50 mg/kg
	Chewing gum without addition of sugar	50 mg/kg
	Ice-cream (except for milk and cream ice-cream), fruit ice of reduced caloric value or without addition of sugar	50 mg/kg
	Biologically active food additives: vitamins and mineral substances in the form of syrups and chewable tablets	400 mg/kg
Cyclamic acid and its salts: sodium and calcium cyclamates (E952) – separate or combined in terms of the acid	Flavored non-alcoholic beverages based on water, fruit juices, milk and milk products without addition of sugar or of reduced caloric value	250 mg/kg
	Flavored desserts based on water, grain, fruit, vegetables, milk, eggs and fat – without addition of sugar or of reduced caloric value	250 mg/kg
	Soft spreads and margarines	500 mg/kg
	Preserved and pasteurized fruit of reduced caloric value or without addition of sugar	1 g/kg
	Jams, preserves, fruit jelly of reduced caloric value	1 g/kg
	Products derived from fruit and vegetables of reduced caloric value	250 mg/kg

Rich bakery and flour confectionery for dietetic nutrition	1.6 g/kg
Beverages containing a mixture of non-alcoholic beverages and beer or cider, wines, alcoholic beverages	250 mg/kg
Dietetic products including for body weight reduction	400 mg/kg
Biologically active food additives:	
- liquid	400 mg/kg
- solid	500 mg/kg
- vitamins and mineral substances in the form of syrups and chewable tablets	1.25 g/kg

Note: <sup>1</sup> – the maximum level of the salt of aspartame-acesulfame (E962) in products is established in accordance with the content of aspartame (AS) or acesulfame potassium (AC) therein; when using the salt of aspartame-acesulfame (E962) upon production of food products, separately or combined with aspartame (E951) and (or) acesulfame potassium (E950), the maximum level of separate sweetening agents (E950 and (or) E951) must not exceed the standards established for them.



**Annex 14**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Propellants and Packaging Gases**

<b>Food additive (index E)</b>	<b>Food products</b>	<b>Maximum level in products</b>
Nitrogen (E941) Argon (E938) Hydrogen (E949) Gellium (E939) Nitrous oxide (E 942) Oxygen (E948) Carbon dioxide (E290)	In accordance with TD	in accordance with TD
Butane (E943a) Isobutane (E943b) Propane (E944)	For vegetable oil sprays (only for industrial use) For water-based emulsion sprays	in accordance with TD

**Annex 15**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Stabilizers, Emulsifiers, Fillers, and Thickeners**

Food additive (index E)	Food products	Maximum level in products
Agar (E406)	In accordance with TD <sup>1</sup>	in accordance with TD
	See Annex No. 12	
Acacia gum	See gym arabic	
Arabinogalactan (E409)	In accordance with TD <sup>1</sup>	in accordance with TD
Alginic acid (E400) and its salts: ammonium alginate (E403), potassium alginate (E402), calcium alginate (E404), sodium alginate (E401)	In accordance with TD <sup>1</sup>	in accordance with TD
	See Annex No. 12	
Calcium acetates (E263)	In accordance with TD	in accordance with TD
	See Annexes No. 7, 8, 12	
Gellan gum (E418)	In accordance with TD <sup>1</sup>	in accordance with TD
Soybean hemicellulose (E426)	Milk-containing beverages	5 g/l
	Biologically active food additives	1.5 g/l (kg)
	Sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, including emulsified creams	30 g/l
	Prepacked rich bakery products	10 g/kg
	Prepacked, ready-prepared eastern noodles	10 g/kg
	Prepacked, ready-prepared rice	10 g/kg
	Prepacked technologically processed potato and rice products, including chilled, frozen and dried products	10 g/kg
	Dry, concentrated and frozen egg products	10 g/kg
	Jellied confectionery, except for jelly in mini- packages	10 g/kg
Guar gum (E412)	In accordance with TD <sup>1,2</sup>	in accordance with TD
	See Annex No. 12	
Gym arabic (E414)	In accordance with TD <sup>1</sup>	in accordance with TD
Diocetyl sodium sulphosuccinate (E480)	Dry mixtures for beverages and desserts containing fumaric acid	10 mg/kg for a ready-to- serve beverage, 15 mg/kg for a ready-to- serve dessert

Fatty acids (E570)	In accordance with TD	in accordance with TD
	See Annex No. 12	
Salts of myristic, palmitic and stearic fatty acids (with base Al, Ca, Na, Mg, K and NH <sub>4</sub> (E470)	See Annex No. 3 and 12	
Isomaltitol, isomalt (E953), xylitol (E967), lactitol (E966), maltitol and maltitol syrup (E965), mannitol (E421), sorbitol (E420), erythritol (E968)	In accordance with TD <sup>3</sup>	in accordance with TD
	Food products except for non-alcoholic beverages	In accordance with TI
	Frozen fish, crustaceans, mollusks and cephalopods	In accordance with TI
	Liqueurs	In accordance with TI
	See Annexes No. 12 and 13	
Carob bean gum (E410)	In accordance with TD <sup>1,2</sup>	in accordance with TD
	See Annex No. 12	
Cassia gum (E427)	Food service ice, fruit ice, fruit ice-cream; Fermented milk products, except for non-flavored milk products containing living fermented microorganisms; Milk-based desserts, including ice-cream and similar products Fillings, glazes and coatings for rich bakery products and desserts; Processed cheeses; Sauces and seasonings for salads; Soups and broths (concentrates)	2.5 g/kg
	Thermally treated meat products	1.5 g/kg
Karaya gum (E416)	Dry breakfast cereals from grains and potatoes	5 g/kg
	Nuts coatings	10 g/kg
	Fillings, glazes, finishing coatings for rich bakery products and flour confectionery	5 g/kg
	Desserts	6 g/kg
	Sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, including emulsified creams	10 g/kg
	Egg liqueurs	10 g/kg
	Chewing gum	5 g/kg
	Biologically active food additives	in accordance with TD
	Flavorings	50 g/kg
Potassium carbonate (E501)	In accordance with TD	in accordance with TD
	See Annex No. 7 and 12	
Carrageenan and its NH <sub>4</sub> , K and Na salts, including furcellaran (E407), carrageenan pes-processed EUCHEMA seaweed (E407a)	In accordance with TD <sup>1</sup>	in accordance with TD
	See Annex No. 12	
Quillaia extracts (E999)	Flavored non-alcoholic beverages, cider	200 mg/l in terms of an

		anhydrous extract
Konjac, Konjac flour (E425), konjac gum (E425i), konjac glucomannane (E425ii)	In accordance with TD <sup>1,2</sup>	10 g/kg
	See Annex No. 12	
Modified starches: Dextrins, starch, thermally processed, white and yellow (E1400), acetylated distarch adipate (E1422), acetylated distarch phosphate (E1414), distarch phosphate hydroxypropyl (E1442), distarch phosphate (E1412), distarch phosphate phosphated (E1413), acetylated starch (E1420), acetylated oxydised starch (E1451), acid treated starch (E1401), starches enzyme-treated (E1405), alkaline treated starch (1402), oxidized starch (1404), hydroxypropyl starch (E1440), bleached starch (1403), starch and starch sodium Octenyl succinate (E1450), monostarch phosphate (E1410)	In accordance with TD	in accordance with TD
	See Annex No. 12	
starch and starch aluminium Octenyl succinate (E1452)	Incapsulated vitamin preparations	35 g/kg
Xantan gum (E415)	In accordance with TD <sup>1,2</sup>	in accordance with TD
	See Annex No. 12	
Lecithins (E322)	In accordance with TD	in accordance with TD
	See Annex No. 12	
Mono- and diglycerides of fatty acids (E471)	In accordance with TD	in accordance with TD
	See Annex No. 12	
Soap root (Acanthophyllum sp.) extract (water)	Confectionery	in accordance with TD
Pectins (E440)	In accordance with TD <sup>1</sup>	in accordance with TD
	See Annex No. 12	
Polyvinylpyrrolidone (E1201), polyvinylpolypyrrolidone (E1202)	See Annex No. 12	
Polydextroses (E1200)	In accordance with TD	in accordance with TD
	See Annex No. 12	
Polydimethylsiloxane (E900)	See Annex No. 3 and 12	
Polyoxyethylene sorbitans (polyoxyethylene sorbitan esters of fatty acids, tweens): polyoxyethylene sorbitan (20) monolaurate (E432, tween 20), polyoxyethylene sorbitan (20) monooleate (E433, tween 80), polyoxyethylene sorbitan (20) monopalmitate	Milk and cream replacers	5 g/kg
	Fatty emulsions for bakery products	10 g/kg
	Ice-cream (except for full-cream ice, milk and cream ice-cream), fruit ice	1 g/kg
	Desserts	3 g/kg
	Rich bakery and flour confectionery	3 g/kg

(E434 tween 40), polyoxyethylene sorbitan (20) monostearate (E435, tween 60), polyoxyethylene (20) sorbitan tristearate (E436, tween 65) – separate or combined	Sugary confectionery	1 g/kg
	Chewing gum	5 g/kg
	Sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, including emulsified creams	5 g/kg
	Soups and broths	1 g/kg
	Dietetic products, including for body weight reduction	1 g/kg
	Biologically active food additives	in accordance with TD
	Flavorings, except for liquid smoke flavorings and flavorings based on oleoresins of spices	10 g/kg
	Food products containing liquid smoke flavorings and flavorings based on oleoresins of spices	1 g/kg
	Decorative ornaments, including for rich bakery products, decorative coatings (not fruit coatings), sweet sauces	3 g/kg
Polyoxyethylene (8) stearate (E430), polyoxyethylene (40) stearate (E431)	Wine	in accordance with TD
Polyethylene glycol (E1521)	Non-alcoholic beverages, including specialized beverages	1 g/kg
	Chewing gum	20 g/kg
	Biologically active food additives in capsules and tablets	10 g/kg
	See Annex No. 6 and 12	
Propylene glycol alginate (E405)	Fatty emulsion products	3 g/kg
	Ice-cream (except for full-cream ice, milk and cream ice-cream), fruit ice	3 g/kg
	Fruit products and vegetables, except for juice products	5 g/kg
	Sugary confectionery	1.5 g/kg
	Chewing gum	5 g/kg
	Rich bakery and flour confectionery	2 g/kg
	Dry breakfast cereals (snacks) based on grain and potatoes	3 g/kg
	Flavored non-alcoholic beverages	300 mg/l
	Beer, cider	100 mg/l
	Emulsion liqueurs	10 g/kg
	Sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, including emulsified creams	8 g/kg
	Fillings, glazes, decorative coatings for rich bakery products and flour confectionery and desserts	5 g/kg

	Dietetic products, including for body weight reduction	1.2 g/kg
	Biologically active food additives	1 g/kg
	See Annex No. 12	
Sucroglycerides (E474), sucrose esters of fatty acids (E473) – separate or combined	Sterilized cream	5 g/kg
	Milk-based beverages	5 g/l
	Cream replacers	5 g/kg
	Meat products, thermally processed	5 g/kg in terms of fat
	Fatty emulsions for bakery products and flour confectionery	10 g/kg
	Ice-cream (except for full-cream ice, milk and cream ice-cream), fruit ice	5 g/kg
	Fresh fruits, surface treatment	in accordance with TD
	Sugary confectionery	5 g/kg
	Desserts	5 g/kg
	Beverage whiteners	20 g/kg
	Rich bakery and flour confectionery	10 g/kg
	Chewing gum	10 g/kg
	Non-alcoholic beverages based on coconuts, almonds and anise apples	5 g/kg
	Alcoholic beverages except for wines and beer	5 g/kg
	Powders for preparation of hot beverages	10 g/kg
	Sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, including emulsified creams	10 g/kg
	Soups and broths	2 g/kg
	Weak preserved coffee	1 g/l
	Biologically active food additives	in accordance with TD
	Dietetic products, including for body weight reduction	5 g/kg
	See Annex No. 5 and 12	
Sucrose acetate isobutyrate (E444, SAIB)	Flavored cloudy non-alcoholic beverages	300 mg/l
	Fruit and (or) vegetable juice-containing beverages	300 mg/l
	Flavored cloudy alcoholic beverages with alcohol content of less than 15 volume %	300 mg/l
Licorice root ( <i>Glycyrrhiza</i> sp.) extract	Confectionery	in accordance with TD
Sorbitans, fatty acid esters of sorbitol, SPANs: sorbitan monostearate (E491, SPAN 60), sorbitan tristearate (E492, SPAN 65), sorbitan monolaurate (E493, SPAN 20),	Milk and cream replacers	5 g/kg
	Fatty emulsions	10 g/kg
	Ice-cream (except for full-cream ice, milk and cream ice-cream), fruit ice (only E492)	500 mg/kg

sorbitan monooleate (E494, SPAN 80), sorbitan monopalmitate (E495, SPAN 40), separate or combined	Rich bakery and flour confectionery	10 g/kg	
	Sugary confectionery	5 g/kg	
	Sweets based on cocoa, chocolate (only E492)	10 g/kg	
	Chewing gum	5 g/kg	
	Jelly fruit jelly (only E493)	25 mg/kg	
	Desserts	5 g/kg	
	Wines (only E491)	5 g/kg	
	Liquid concentrates of tea, fruit and herbal waters	500 mg/kg	
	Beverage whiteners	5 g/kg	
	Sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, including emulsified creams	5 g/kg	
	Fillings, glazes, decorative coatings for rich bakery products and confectionery	5 g/kg	
	Bakery yeast	in accordance with TD	
	Dietetic products, including for body weight reduction	5 g/kg	
	Biologically active food additives	in accordance with TD	
See Annex No. 5 and 12			
Stearyl tartrate (E483), stearyl citrate (E484) – separate or combined	Rich bakery and flour confectionery	4 g/kg	
	Desserts	5 g/kg	
	See Annex No. 5		
Sodium stearoyl-2-lactylate (E481), Calcium stearoyl-2-lactylate (E482), separate or combined	Fatty emulsions	10 g/kg	
	Bread (special varieties)	3 g/kg	
	Bakery and flour confectionery	5 g/kg	
	Chewing gum	2 g/kg	
	Instant rice	4 g/kg	
	Sugary confectionery	5 g/kg	
	Desserts	5 g/kg	
	Dry breakfast cereals (snacks) based on grains and potatoes	5 g/kg	
	Cut or ground meat preserves	4 g/kg	
	Powders for preparation of hot beverages	2 g/kg	
	Emulsified liqueurs, alcoholic beverages of strength less than 15%	8 g/kg	
	Fruit mustard	2 g/kg	
	Food products of dietetic therapeutic and protective nutrition, including for body weight reduction	2 g/kg	
	See Annex No. 5		
	Tannins, food grade (E181)	In accordance with TD	in accordance with TD

	See Annex No. 11	
Tara gum (E417)	In accordance with TD	in accordance with TD
Sodium tartrates (E335), potassium tartrates (E336), potassium sodium tartrates (E337)	In accordance with TD	in accordance with TD
	See Annex No. 7	
Thermally oxidized soyabean oil with mono- and diglycerides of fatty acids, TOSOM (E479)	Fatty emulsion products, frying and cooking fats	5 g/kg
Tragacanth (E413)	In accordance with TD1	in accordance with TD
	See Annex No. 12	
Triacetin (E1518, glyceryl triacetate)	Chewing gum	in accordance with TD
	See Annex No. 12	
Triethyl citrate (E1505)	Dry egg white	in accordance with TD
	Biologically active food additives in capsules and tablets	3.5 g/kg
	See Annex No. 12	
Ammonium salts of phosphatidic acid – (ammonium phosphatides, E442)	Cocoa and chocolate	10 g/kg
	Sweets based on cocoa	10 g/kg
Phosphoric acid (E338) and food phosphates: Phosphates: with base NH <sub>4</sub> (E 342), K (E340), Ca (E341, 542), Mg (E343), Na (E339), Diphosphates (E450), Triphosphates (E451), Polyphosphates (E452) – added phosphate, separate or combined in terms of P <sub>2</sub> O <sub>5</sub>	Heat-treated milk	1 g/l
	Concentrated milk with dry substances content of less than 28%	1 g/l
	Concentrated milk with dry substances content of over 28%	1.5 g/l
	Dry milk and dry skim milk	2.5 g/l
	Pasteurized heat-treated cream	5 g/l
	Whipped cream and replacers thereof based on vegetable fat	5 g/l
	Young cheeses (except for Mozzarella cheese)	2 g/kg
	Processed cheeses and replacers thereof	20 g/kg
	Chocolate and barley milk-based beverages	2 g/kg
	Sour cream butter	2 g/kg
	Spreads and margarines	5 g/kg
	Ice-cream (except for full-cream ice, milk and cream ice-cream), fruit ice	1 g/kg
	Desserts, including milk-based desserts (ice-cream)	3 g/kg
	Desserts, dry powder-like mixtures	7 g/kg
	Fruit products, glazed fruit	800 mg/kg
	Products derived from potatoes, including frozen, chilled and dried products	5 g/kg
Processed potato products, including frozen, chilled and dried products, as well as frozen pre-fried potatoes	5 g/kg	



Bakery and flour confectionary	20 g/kg
Sugary confectionery	5 g/kg
Powdered sugar	10 g/kg
Chewing gum	in accordance with TD
Flour	2.5 g/kg
Flour-based dry mixtures with addition of sugar, leavening agents for baking of fruit cakes, cakes, pancakes, etc.	20 g/kg
Pasta: noodles	2 g/kg
Thin dough	12 g/kg
Grain products produced by the extrusion technology, dry breakfast cereals	5 g/kg
Dry, powder-like food products	10 g/kg
Special food products	5 g/kg
Meat products, except for non-processed products and meat filling	3 g of added phosphate for 1 kg of meat raw materials 8 g of the total (added + natural) phosphate for 1 kg of meat raw materials
Frozen non-processed fish fillet	5 g/kg added phosphate 10 g/kg of the total (added + natural phosphate)
Frozen mollusks and crustaceans (processed and non-processed)	5 g of added phosphate for 1 kg crustacean raw materials 10 g of the total (added + natural) phosphate for 1 kg of crustacean raw materials
Surimi fish fillet	1 g/kg
Fish and shrimp pastes	5 g/kg
Frozen fish filling and products therefrom	5 g of added phosphate for 1 kg of fish raw materials 10 g of the total (added + natural) phosphate for 1 kg of fish raw materials
Crustacean preserves	1 g of added phosphate for 1 kg of crustacean raw materials
Liquid egg products (melange, egg white, egg yolk)	10 g/kg
Sauces based on vegetable oil formulations, mayonnaises, mayonnaise sauces, creams based on vegetable oil formulations, including emulsified creams	5 g/kg

	Soups and broths (concentrates)	3 g/kg
	Cloud emulsions for beverages	30 g/l
	Special beverages for sportsmen, artificially mineralized non-alcoholic beverages	500 mg/l
	Beverages based on vegetable proteins	20 g/l
	Alcoholic beverages (except for wines and beer)	1 g/l
	Tea and dry instant herbal teas	2 g/kg
	Salt and salt substitutes	10 g/kg
	Syrups (decorative coatings) flavored for milk shakes, ice-cream, syrups for thick pancakes, pancakes, Easter cakes	3 g/kg
	Glazes for meat and vegetable products	4 g/kg
	Biologically active food additives	in accordance with TD
	Flavored non-alcoholic beverages	700 mg/l
	Flavorings	40 g/kg
	Serum protein for production of performance beverages	4 g/kg
Furcellaran	See Carrageenan	
Chitosan, chitosonium hydrochloride	In accordance with TD	in accordance with TD
Cellulose: microcrystalline cellulose (E460i), powdered cellulose (E460ii) Modified cellulose: hydroxypropyl methyl cellulose (E464), hydroxypropyl cellulose (E463), carboxymethyl cellulose (CMC), sodium carboxymethyl cellulose, cellulose gum (E466), fermented carboxymethyl cellulose, fermented cellulose gum (E469), methyl cellulose (E461), methyl ethyl cellulose (E465), ethyl hydroxyethyl cellulose (E467), ethyl cellulose (E462)	In accordance with TD	in accordance with TD
	See Annexes No. 12	
croscarmellose (cross-linked carboxymethyl cellulose sodium salt), E468	Biologically active food additives of hard consistency	30 g/kg
	See Annex No. 12	
beta-Cyclodextrin (E459)	Food products in tablets (tablet forms)	in accordance with TD
	Chewing gum	20 g/kg
	Flavored non-alcoholic beverages, including specialized beverages	500 mg/kg
	Snacks (dry breakfast cereals) based on grains, potatoes and other vegetables and greens	500 mg/kg
	Incapsulated flavorings: -in flavored teas and flavored powder-like soluble beverages (ready-	500 mg/kg

	prepared or restored in accordance with the manufacturer's instruction) -in flavored snacks, dry breakfast cereals (ready prepared or restored in accordance with the manufacturer's instruction)	
	See Annexes No. 6 and 12	
Potassium citrates (E332), calcium citrates (E333), sodium citrates (E331)	In accordance with TD	in accordance with TD
	See Annex No. 7	
Tartaric, acetic and fatty acid esters of glycerol (E472f), diacetyltartaric and fatty acid esters of glycerol (E472e), citric and fatty acid esters of glycerol (E472c), lactic and fatty acid esters of glycerol (E472b), acetic and fatty acid esters of glycerol (E472a), tartaric acid esters of mono- and diglycerides of fatty acids (E472d)	In accordance with TD	in accordance with TD
	See Annex No. 12	
Glycerol esters of wood resin (E445)	Flavored cloudy non-alcoholic beverages	100 mg/kg
	Fruit and (or) vegetable juice-containing beverages	100 mg/kg
	Citrus fruits, surface treatment	50 mg/kg
	Cloudy alcoholic beverages	100 mg/kg
Polyglycerol esters of wood resin (E475)	Milk and cream replacers	5 g/kg
	Fatty emulsions	5 g/kg
	Sugary confectionery	2 g/kg
	Chewing gum	5 g/kg
	Bakery and flour confectionery	10 g/kg
	Desserts	2 g/kg
	Egg products	1 g/kg
	Beverage whiteners	500 mg/kg
	Emulsified liqueurs	5 g/kg
	Granulated breakfast cereals from grains	10 g/kg
	Dietetic products, including for body weight control	5 g/kg
	Biologically active food additives	in accordance with TD
		See Annex No. 12
Polyglycerol esters of interesterified ricinoleic acid (Polyglycerol polyricinoleate, E476)	Spreads and margarines with fat content of 41% and lower	4 g/kg
	Dressings, seasonings	4 g/kg
	Jellied desserts	4 g/kg
	Sugary confectionery based on cocoa and chocolate, chocolate glaze	5 g/kg
Propylene glycol esters of fatty acids (E477)	Milk and cream replacers	5 g/kg
	Fatty emulsions for bakery products and flour	10 g/kg

	confectionery	
	Ice-cream (except for full-cream ice, milk and cream ice-cream), fruit ice	3 g/kg
	Beverage whiteners	1 g/kg
	Desserts	5 g/kg
	Sugary confectionery	5 g/kg
	Rich bakery products and confectionery	5 g/kg
	Whipped decorative dessert coatings, except for milk and cream coatings	30 g/kg
	Dietetic products, including for body weight reduction	1 g/kg
Sucrose esters of fatty acids (E473)	See Sucroglycerides (E 474)	
Fatty acid esters of sorbitol, SPANs (E491E495)	See Sorbitans	

Note:

<sup>1</sup> – for agar (E406), alginic acid and its alginate salts (E400-E404), arabinogalactan (E409), pectines (E440), for guar gum (E412), carob bean gum (E410), konjac gym (E425, 425i, E425ii) gym arabic (E414), carrageenan (E407, E407a), xantan gum (E415), tragacanth gym (413), tara gum (E417), gellan gum (E418) – except for production of jelly in minipackages (portion jelly) and jelly sweets;

<sup>2</sup> – for guar gum (E412), carob bean gum (E410), konjac gym (E425, 425i, E425ii), xantan gum (E415) and tara gum (E417) – except for production of ready-prepared dry (dried) food products which may be restored upon ingestion;

<sup>3</sup> – when used not as sweetening agents – for food products except for non-alcoholic beverages and food products specified in subclause a) of clause 16.

**Annex 16**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards of the Use of Taste and Flavor Enhancers**

Food additive (index E)	Food products	Maximum level in products
Aspartame (E951) <sup>1</sup>	Chewing gum with sugar	2.5 g/kg
	See Annex No. 13	
Acesulfame potassium (E950) <sup>1</sup>	Chewing gum with sugar	800 mg/kg
	See Annex No. 13	
Zinc acetate (E650)	Chewing gum	1 g/kg
Glycine and its sodium salt (E640)	In accordance with TD	in accordance with TD
Glutamic acid (E620) and its glutamate salts: with base NH <sub>4</sub> (E624), K (E622), Ca (E623), Mg (E625), Na (E621) – separate or combined in terms of glutamic acid	Food products	10 g/kg
	Seasonings and spices	in accordance with TD
Guanylic acid (E626), potassium guanylate (E628), calcium guanylate (E629), sodium guanylate (E627), inosinic acid (E630) potassium inosinate (E632), calcium inosinate (E633), sodium inosinate (E631), calcium 5-ribonucleotides (E634), disodium 5-ribonucleotides (E635) – separate or combined, for guanylates and inosinates – in terms of a relevant acid	Food products	500 mg/kg
	Seasonings and spices	in accordance with TD
Carbamide (E927b, urea)	Chewing gum without addition of sugar	30 g/kg
Maltol (E636), ethyl maltol (E637)	Flavorings	in accordance with TD
Neohesperidine dihydrochalcone (E959) <sup>1</sup>	Chewing gum with sugar	150 mg/kg
	Spreads and margarines	5 mg/kg
	Meat products	5 mg/kg
	Fruit jelly (fruit jelly)	5 mg/kg
	Vegetable proteins	5 mg/kg
	See Annex No. 13	
Neotame (E961)	Flavored non-alcoholic beverages based on water, fruit juices, milk and milk products	2 mg/l

	without addition of sugar or of reduced caloric value	
	Snacks: flavored and ready-prepared, packed, dry, spicy starch-containing products and nuts with coating;	2 mg/l
	Confectionery based on starch of reduced caloric value or without addition of sugar;	3 mg/l
	Breath-freshening microsweets without addition of sugar;	3 mg/l
	Flavored pastilles throat without addition of sugar;	3 mg/l
	Chewing gum with sugar;	3 mg/l
	Jams, jelly and fruit jellies of reduced caloric value	2 mg/l
	Sauces	2 mg/l
	Biologically active food additives (liquid and powder-like); Biologically active food additives: vitamins and mineral substances in the form of syrups and chewable tablets	2 mg/l
Thaumatococcus (E957) <sup>1</sup>	Chewing gum with sugar	10 mg/kg
	Desserts	5 mg/kg
	Flavored non-alcoholic beverages	0.5 mg/l
	See Annex No. 13	

Note:

<sup>1</sup> – The use of aspartame, potassium acesulfame, heohesperidine dihydrochalcone, neotame and thaumatococcus only as a taste and flavor enhancer; in the event of combined use of those food additives upon chewing gum production the maximum levels thereof must be proportionally reduced, i.e. the total mass (expressed in %s of maximum levels of separate substances) must constitute not over 100%.

**Annex 17**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Color Retention (Stabilization) Agents**

Food additive (index E)	Food products	Maximum level in products
Ascorbic acid (E300) and its ascorbate salts: with base K (E303), Ca (E302), Na (E301)	In accordance with TD	in accordance with TD
	See Annex No. 4 and 5	
Magnesium hydroxide (E528), magnesium carbonate (E504)	In accordance with TD	in accordance with TD
	See Annex No. 7	
Isoascorbic acid, erythorbic acid (E315), sodium isoascorbate (E316)	Non-alcoholic and alcoholic beverages	in accordance with TD
	See Annex No. 4	
Potassium nitrate (E252), sodium nitrate (E251)	See Annex No. 8	
Potassium nitrite (E249), sodium nitrite (E250)	See Annex No. 8	
Ferrous lactate (E585), ferrous gluconate (E579)	Black olives (for the purpose of black discoloration by oxidation)	150 mg/kg in terms of Fe

**Annex 18**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Food Products for which Both a List of Food Additives Used in Accordance with TD and Allowable Levels of their Use are Established**

Food products	Food additive (index E)	Maximum level in products	
Cocoa and chocolate products	Citric acid (E330)	5 g/kg	
	Lecithins, phosphatides (E322)	in accordance with TD	
	Tartaric acid (E334)	5 g/kg	
	Glycerol (422)	in accordance with TD	
	Mono- and diglycerides of fatty acids (E471)	in accordance with TD	
	Citric and fatty acid esters of glycerol (E472c)	in accordance with TD	
	Calcium carbonate (E170) Sodium carbonates (E500) Potassium carbonates (E501) Ammonium carbonates (E503) Magnesium carbonates (E504) Sodium hydroxide (E524) Potassium hydroxide (E525) Calcium hydroxide (E526) Ammonium hydroxide (E527) Magnesium hydroxide (E528) Magnesium oxide (E530)	70 g/kg from a dry fat-free substance in terms of calcium carbonates	
	Gym arabic (E414) Pectins (E440) (only upon the use as a glazing agent)	in accordance with TD	
	Fruit juices	Citric acid (E330)	3 g/l
		Ascorbic acid (E300)	in accordance with TD
Malic acid (E296) – pineapple juice		3 g/l	
Tartaric acid (E334)		4 g/l	
Pectins (E440) – pineapple juice and passion-fruit vine juice		3 g/l	
Calcium carbonate (E170) and Potassium tartrates (E336) – grape juice		in accordance with TD	
Nectars	Citric acid (E330)	5 g/l	
	Ascorbic acid (E300)	in accordance with TD	
	Lactic acid (E270)	5 g/l	
	Tartaric acid (E334)	4 g/l	
	Pectins (E440) – for pineapple nectar and passion fruit vine nectar	3 g/l	



Jams and jelly, fruit jellies and other similar spreads, including low-calorie	Pectins (E440) Lactic acid (E270) Malic acid (E296) Ascorbic acid (E300) Calcium lactate (E327) Citric acid (E330) Sodium citrates (E331) Calcium citrates (E333) Tartaric acid (E334) Sodium tartrates (E335) Sodium malates (E350)	in accordance with TD
	Alginic acid (E400) Sodium alginate (E401) Potassium alginate (E402) Ammonium alginate (E403) Calcium alginate (E404) Agar (E406) Carrageenan and its sodium, potassium and ammonium salts, including furcellaran (E407) Carob bean gum (E410) Guar gum (E412) Xantan gum (E415) Gellan gum (E418)	10 g/kg separate or combined
	Mono- and diglycerides of fatty acids (E471) Calcium chloride (E509) Sodium hydroxide (E524)	in accordance with TD
Fruit stewed fruit	Sodium citrates (E331) Potassium citrates (E332) Pectin (E440) – except for apple stewed fruit Calcium chloride (E509)	in accordance with TD
Powdered milk	Sodium ascorbate (E301) Ascorbic acid (E300) Ascorbyl palmitate (E304i) Ascorbyl stearate (E304ii) Lecithins, phosphatides (E322) Sodium citrates (E331) Potassium citrates (E332) Carrageenan and its sodium, potassium and ammonium salts, including furcellaran (E407) Sodium carbonates (E500) Potassium carbonates (E501) Calcium chloride (E509)	in accordance with TD
Pasteurized cream	Sodium alginate (E401) Potassium alginate (E402) Carrageenan and its sodium, potassium and ammonium salts, including furcellaran (E407) Carboxymethyl cellulose sodium salt (E466) Mono- and diglycerides of fatty acids (E471)	in accordance with TD
Non-processed fruit and vegetables: frozen, ready-prepared chilled packed, packed peeled potatoes	Ascorbic acid (E300) Sodium ascorbate (E301) Calcium ascorbate (E302) Citric acid (E330) Malic acid (E296) – only for peeled potatoes	in accordance with TD

Non-processed fish, crustaceans and mollusks, including frozen	Calcium citrates (E333)	in accordance with TD
Instant rice	Mono- and diglycerides of fatty acids (E471) Acetic and fatty acid esters of glycerol (E472a)	in accordance with TD
Non-emulsified vegetable and animal oils and fats (except for vegetable oils produced by pressing, and olive oil)	Lactic acid (E270) Ascorbic acid (E300) Ascorbyl palmitate (E304i) Ascorbyl stearate (E304ii) Mixed tocopherols concentrate (E306) Alpha-tocopherol (E307) Synthetic gamma-tocopherol (E308) Synthetic delta-tocopherol (E309)	in accordance with TD
	Lecithins (322)	30 g/l
	Citric acid (E330) Sodium citrates (E331) Potassium citrates (E332) Calcium citrates (E333)	in accordance with TD
	Mono- and diglycerides of fatty acids (E471)	10 g/l
	Citric and fatty acid esters of glycerol (E472c)	in accordance with TD
Refined olive oil, including olive fertilizer oil	Alpha-tocopherol (E307)	200 mg/kg
Aged cheeses, including cut and grated cheeses	Calcium carbonate (E170) Magnesium carbonates (E504) Calcium chloride (E509) Glucono delta-lactone (E575) Cellulose (460) – for cut and grated aged cheeses Sodium hydrogen carbonate (E500ii) – only for cultured milk cheeses	in accordance with TD
Serum cheeses	Acetic acid (E260) Lactic acid (E270) Citric acid (E330) Powder-like cellulose (E460ii) – only for grated and cut cheese Glucono delta-lactone (E575)	in accordance with TD
Preserved and pasteurized fruit and vegetables	Acetic acid (E260) Potassium acetates (E261) Sodium acetates (E262) Calcium acetates (E263) Malic acid (E296) Ascorbic acid (E300) Sodium ascorbate (E301) Calcium ascorbate (E302) Lactic acid (E270) Sodium lactate (E325) Potassium lactate (E326) Calcium lactate (E327) Citric acid (E330) Sodium citrates (E331) Potassium citrates (E332) Calcium citrates (E333) Tartaric acid (E334) Sodium tartrates (E335) Potassium tartrates (E336)	in accordance with TD

	Potassium sodium tartrate (E337) Calcium chloride (E509) Glucono delta-lactone (E575)	
Raw minced meat and meat filling, packed	Potassium acetates (E261) Sodium acetates (E262) A ascorbic acid (E300) Sodium ascorbate (E301) Calcium ascorbate (E302) Sodium lactate (E325) Potassium lactate (E326) Citric acid (E330) Sodium citrates (E331) Potassium citrates (E332) Calcium citrates (E333)	in accordance with TD
Bread	Acetic acid (E260) Potassium acetates (E261) Sodium acetates (E262) Calcium acetates (E263) Ascorbic acid (E300) Sodium ascorbate (E301) Calcium ascorbate (E302) Ascorbyl palmitate (E304i) Ascorbyl stearate (E304ii) Lecithins, phosphatides (E322) Lactic acid (E270) Sodium lactate (E325) Potassium lactate (E326) Calcium lactate (E327) Mono- and diglycerides of fatty acids (E471) Acetic and fatty acid esters of glycerol (E472a) Tartaric acid esters of mono- and diglycerides of fatty acids (E472d) Diacetyltartaric and fatty acid esters of glycerol (E472e) Mixed tartaric, acetic and fatty acid esters of glycerol (E472f)	in accordance with TD
Fresh pasta	Lactic acid (E270) Ascorbic acid (E300) Sodium ascorbate (E301) Lecithins, phosphatides (E322) Citric acid (E330) Tartaric acid (E334) Mono- and diglycerides of fatty acids (E471) Glucono delta-lactone (E575)	in accordance with TD
Soft wheat pasta	Lactic acid (E270) Ascorbic acid (E300) Sodium ascorbate (E301) Lecithins, phosphatides (E322) Citric acid (E330) Tartaric acid (E334) Mono- and diglycerides of fatty acids (E471) Glucono delta-lactone (E575)	in accordance with TD
	Guar gum (E412)	7.5 g/kg of flour

	Xantan gum (E415)	separate or combined
	Dextrins (E1400)	30 g/kg of flour
	Sodium citrates (E331)	1 g/kg of flour
Beer	Lactic acid (E270) Ascorbic acid (E300) Sodium ascorbate (E301) Citric acid (E330) Gym arabic (E414)	in accordance with TD
Cultured cream butter	Sodium carbonates (E500)	in accordance with TD
Goat milk, processed by ultra-high temperature	Sodium citrates (E331)	4 g/l
Chestnuts in syrup	Carob bean gum (E410) Guar gum (E412) Xantan gum (E415)	in accordance with TD
Non-flavored fermented cream products, containing fermented living microorganisms, or substituting products thereof with fat content of under 20%	Agar (E406) Carrageenan (E407) Carob bean gum (E410) Guar gum (E412) Xantan gum (E415) Pectins (E440) Cellulose (E460) Carboxymethyl cellulose (E466) Mono- and diglycerides of fatty acids (E471) Oxidized starch (E1404) Monostarch phosphate (E1410) Distarch phosphate (E1412) Phosphated distarch phosphate (E1413) Acetylated distarch phosphate (E1414) Acetylated starch (E1420) Acetylated distarch adipate (E1422) Hydroxypropyl starch (E1440) Distarch phosphate hydroxypropyl (E1442) Starch sodium Octenyl succinate (E1450) Acetilated oxydised starch (E1451)	in accordance with TD

**Annex 19**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**List of Flavoring Chemical Substances Allowed for Use in Production of Food Flavorings**

Ru No. 1	FE MA No. 2	CE No. 3	CAS	Russian name	English name	Synonyms; systematic name
01.001	2633	491	138-86-3	Лимонен	Limonene	1,8(9)-p-Menthadiene; p-Mentha-1,8-diene; 1-Methyl-4-isopropenyl-1-cyclohexene; Dipentene; Carvene; Cinene; Citrene;
01.002	2356	620	99-87-6	1-Изопропил-4-метилбензол	1-Isopropyl-4-methylbenzene	p-Cymene; Cymene; p-methyl-isopropylbenzene; 4-isopropyl-1-methylbenzene; Cymol; 4-Methyl-1-isopropylbenzene; 1-Methyl-4-isopropylbenzene;
01.003	2903	2114	127-91-3	Пин-2(10)-ен	Pin-2(10)-ene	beta-Pinene; 6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane
01.004	2902	2113	80-56-8	Пин-2(3)-ен	Pin-2(3)-ene	alpha-Pinene; 2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene
01.005	3046	2115	586-62-9	Терпинолен	Terpinolene	p-Menth-1,4(8)-diene; 1-Methyl-4-isopropylidene-1-cyclohexene; 1,4(8)-Terpadiene; p-Mentha-1,4(8)-diene
01.006	2856	2117	99-83-2	альфа-Фелландрен	alpha-Phellandrene	Phellandrene; 2-Methyl-5-isopropyl-1,3-cyclohexadiene; 4-isopropyl-1-methyl-1,5-cyclohexadiene; p-Mentha-1,5-diene
01.007	2252	2118	87-44-5	бета-Кариофиллен	beta-Caryophyllene	Caryophyllene; 2-Methylene-6,10,10-trimethylbicyclo-[7,2,0]-undec-5-ene; 4,11,11-Trimethyl-8-methylene-bicyclo[7.2.0]undec-4(trans)-ene
01.008	2762	2197	123-35-3	Мирицен	Myrcene	7-Methyl-3-methylene-1,6-octadiene; 7-Methyl-3-methyleneocta-1,6-diene
01.009	2229	2227	79-92-5	Камфен	Camphene	3,3-Dimethyl-2-methylenenorcamphene; 2,2-Dimethyl-3-methylenenorbornane;
01.010	3144	2260	1195-32-0	1-Изопропенил-4-метилбензол	1-Isopropenyl-4-methylbenzene	4,alpha-Dimethylstyrene; p-Isopropenyl toluene; 1-Methyl-4-isopropenyl benzene; 2-p-tolyl propene;
01.011	3186	2292	644-08-6	4-Метил-1,1'-бифенил	4-Methyl-1,1'-biphenyl	p-Methyldiphenyl; p-Methylphenylbenzene; Phenyl-p-tolyl; p-Phenyl-toluene;
01.013	3129	10978	92-52-4	Бифенил	Biphenyl	Diphenyl; Phenylbenzene;
01.014	3193	11009	90-12-0	1-Метилнафталин	1-Methylnaphthalene	alpha-Methylnaphthalene;
01.015	3233	11022	100-42-5	Винилбензол	Vinylbenzene	Styrene; Vinylbenzol; Phenylethene; Phenylethylene;
01.016	3331	10979	495-62-5	1,4(8),12-	1,4(8),12-	gamma Bisabolene; gamma-Bisabolene; 1-

				Бисаболатриен	Bisabolatriene	Methyl-4-(1,5-dimethyl-1,4-hexadienyl)-1-cyclohexene; 6-Methyl-2-(4-methylcyclohex-3-enylidene)hept-5-ene
01.017	3443	11030	4630-07-3	Валенсен	Valencene	1,2,3,5,6,7,8a-Octahydro-1,8a-dimethyl-7-isopropenyl naphthalene; 1,2-Dimethyl-9-isopropylene-bicyclo[4.4.0]dec-5-ene
01.018	3539	11015	13877-913	бета-Оцимен	beta-Ocimene	trans-beta-ocimene; 1,3,6-octatriene, 3,7-dimethyl-; 3,7-Dimethylocta-1,3(trans),6-triene
01.019	3558	11023	99-86-5	альфа-Терпинен	alpha-Terpinene	1-Methyl-4-isopropyl-1,3-cyclohexadiene; p-Mentha-1,3-diene
01.020	3559	11025	99-85-4	гамма-Терпинен	gamma-Terpinene	1-Methyl-4-isopropyl-1,4-cyclohexadiene; Moslene; Crithmene; p-Mentha-1,4-diene
01.021		10982	29350-730	дельта-Кадинен	delta-Cadinene	alpha-, beta-, gamma, epsilon, delta-Cadiene; 2,3,4,7,8,10-hexahydro-1,6-dimethyl-4-isopropyl-naphthalene
01.022		10985	469-61-4	альфа-Цедрен	alpha-Cedrene	2,6,6,8-Tetramethyl-tricyclo[5.3.1.0(1.5)]undec-8-ene
01.023		11003	3691-12-1	1(5),11-Гваядиен	1(5),11-Guaiadiene	1,4-Dimethyl-7-isopropenyl-delta-9,10-octahydroazulene; alpha-Guaiene; 2,8-Dimethyl-5-isopropenyl-bicyclo[5.3.0] dec-1(7)-ene
01.024		11931	5208-59-3	бета-Бурбонен	beta-Bourbonene	2-Methyl-8-methylene-5-isopropyl-tricyclo[5.3.0.0(2.6)]decane
01.029	3821	10983	13466-789	дельта-3-Карен	delta-3-Carene	3-Carene; Isodiprene; d-3-Carene; Car-3-ene; 4,7,7-Trimethyl-3-norcarene; 3,7,7-Trimethylbicyclo[4,1,0]hept-3-ene; 3,7,7-trimethyl-bicyclo-[4.1.0] hept-3-ene
01.030		10989	13744-155	бета-Кубебен	beta-Cubebene	10-Methyl-4-methylene-7-isopropyl-tricyclo[4.4.0.0(1.5)]decane
01.036		11847	101-81-5	Дифенилметан	Diphenylmethane	Benzylbenzene; Phenylbenzyl; 1,1'-methylenebis-benzene;
01.037		10992	112-41-4	Додец-1-ен	Dodec-1-ene	1-Dodecene; Dodecylene;
01.039		10996	20307-84-0	дельта-Элемен	delta-Elemene	3-Isopropenyl-1-isopropyl-4-methyl-4-vinylcyclohex-1-ene
01.040	3839	10998	502-61-4	альфа-Фарнезен	alpha-Farnesene	1,3,6,10-Dodecatetraene, 3,7,11-trimethyl (alpha-isomer); 3,7,11-Trimethyldodeca-1,3,6,10-tetraene
01.041	3839	10999	18794-84-8	бета-Фарнезен	beta-Farnesene	3,7,11-Trimethyl-1,3,6,10-dodecatetraene; 2,6,10-Trimethyl-2,6,9,11-dodecatetrene; 7,11-Dimethyl-3-methylene-1,6,10-dodecatriene
01.043		11004	6753-98-6	3,7,10-Гумулатриен	3,7,10-Humulatriene	alpha-Humulene; alpha-Caryophyllene; 1,5,5,8-Tetramethylcycloundeca-3,7,10-triene
01.045	2633	491	5989-27-5	d-Лимонен	d-Limonene	p-Mentha-1,8-diene
01.046	2633	491	5989-54-8	l-Лимонен	l-Limonene	Levo-Limonene;
01.051		11010	91-57-6	2-Метилантранилат	2-Methylnaphthalene	Beta-methyl naphthalenes; beta-

						methylnaphthalene;
01.052		11011	10208-807	альфа-Мууролен	alpha-Muurolene	2,8-Dimethylene-5-isopropyl-bicyclo[4.4.0]decane
01.053		11014	91-20-3	Нафталин	Naphthalene	Naphthene; Champhor tar;
01.055		11017	555-10-2	бета-Фелландрен	beta-Phellandrene	p-Mentha-1(7),2-diene
01.059		11018	3387-41-5	4(10)-Туйен	4(10)-Thujene	4-Methylene-1-isopropyl-bicyclo[3.1.0]hexane
01.061	3795		16356-119	Ундека-1,3,5-триен	Undeca-1,3,5-triene	
01.065	2856	2117	4221-98-1	(R)-5-(1-Метилэтил)-2-метил-1,3-циклогексадиен	(R)-5-(1-Methylethyl)-2-methyl-1,3-cyclohexadiene	
01.070	4293		111-66-0	1-Октен	1-Octene	
02.001	2179	49	78-83-1	2-Метилпропан-1-ол	2-Methylpropan-1-ol	Isobutanol; Isopropyl carbinol;
02.002	2928	50	71-23-8	Пропан-1-ол	Propan-1-ol	Propylic alcohol;
02.003	2057	51	123-51-3	Изопентанол	Isopentanol	Isoamyl alcohol; Isopentyl alcohol; Amyl iso alcohol; 3-Methyl-1-butanol; Pentyl iso alcohol; Isobutyl carbinol; 3-Methylbutan-1-ol
02.004	2178	52	71-36-3	Бутан-1-ол	Butan-1-ol	Propyl carbinol; Hydroxybutane; Butyric alcohol;
02.005	2567	53	111-27-3	Гексан-1-ол	Hexan-1-ol	Alcohol C-6; n-Hexyl alcohol; Caproic alcohol; Amyl carbinol; n-Hexanol;
02.006	2800	54	111-87-5	Октан-1-ол	Octan-1-ol	Alcohol C-8; n-Octyl alcohol; Heptyl carbinol; Caprylic alcohol; Capryl alcohol; pri.-Octyl alcohol;
02.007	2789	55	143-08-8	Нонан-1-ол	Nonan-1-ol	Alcohol C-9; Pelargonic alcohol; Nonanol; Octyl carbinol; Pelargonic alcohol; n-Nonyl alcohol;
02.008	2617	56	112-53-8	Додекан-1-ол	Dodecan-1-ol	Alcohol C-12; Lauryl alcohol; Lauric alcohol; Dodecyl alcohol; 1-Dodecanol; Undecyl carbinol;
02.009	2554	57	36653-824	Гексадекан-1-ол	Hexadecan-1-ol	Cetyl alcohol; Alcohol C-16; n-hexadecyl alcohol; Palmityl alcohol;
02.010	2137	58	100-51-6	Бензиловый спирт	Benzyl alcohol	alpha-Hydroxytoluene; Phenyl carbinol; Phenylmethanol; Phenylmethyl alcohol;
02.011	2309	59	106-22-9	Цитронеллол	Citronellol	3,7-Dimethyloct-6-en-1-ol
02.012	2507	60	106-24-1	Гераниол	Geraniol	2,6-Dimethyl-2,6-octadien-8-ol; trans-3,7-Dimethyl-2,6-octadien-1-ol; 3,7-Dimethylocta-2(trans),6-dien-1-ol
02.013	2635	61	78-70-6	Линалоол	Linalool	2,6-Dimethyl-octadien-2,7-ol-6; 2,6-Dimethyl-2,7-octadien-6-ol; Linalol; Licareol; Coriandrol; 3,7-Dimethylocta-1,6-dien-3-ol
02.014	3045	62	98-55-5	альфа-Терпинеол	alpha-Terpineol	alpha-Terpineol; 1-Methyl-4-isopropyl-1-

						cyclohexen-8-ol; alpha-Terpilenol; Terpeneol schlechthin.; p-Menth-1-en-8-ol
02.015	2665	63	89-78-1	Ментол	Menthol	2-Isopropyl-5-methylcyclohexanol; Hexahydrothymol; 5-Methyl-2-isopropylhexahydrophenol; 5-Methyl-2-isopropylcyclohexanol; cis(1,3)-trans(1,4)-Menthan-3-ol
02.016	2157	64	507-70-0	Борнеол	Borneol	Camphol; Baros; d-Camphanol; 2-Hydroxycamphane; 2-Camphanol; Bornyl alcohol; Borneocamphor; 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-ol
02.017	2294	65	104-54-1	Коричный спирт	Cinnamyl alcohol	Cinnamic alcohol; gamma-Phenylallyl alcohol; 3-Phenyl-2-propen-1-ol; 2-Propen-1-ol,-3-phenyl; 3-Phenylprop-2-enol
02.018	2772	67	7212-44-4	Неролидол	Nerolidol	3,7,11-Trimethyl-1,6,10-dodecatrien-3-ol; Peruviol; Dodecatrien; Melaleucol; 3,7,11-Trimethyl-1,6(cis),10-dodecatrien-3-ol
02.019	2858	68	60-12-8	2-Фенилэтан-1-ол	2-Phenylethan-1-ol	Phenethyl alcohol; beta-Phenethyl alcohol; 1-Phenyl-2-ethanol; 2-Phenylethyl alcohol; Benzyl carbinol;
02.020	2562	69	2305-21-7	Гекс-2-ен-1-ол	Hex-2-en-1-ol	2-Hexenol; 3-Propylallyl alcohol;
02.021	2548	70	111-70-6	Гептан-1-ол	Heptan-1-ol	Heptyl alcohol; Alcohol C-7; Hydroxyheptane; Enanthyl alcohol; Enanthic alcohol; pri.Heptyl alcohol; Hexyl carbinol; Hydroxyheptane;
02.022	2801	71	123-96-6	Октан-2-ол	Octan-2-ol	Octyl alcohol sec.; Methyl hexyl carbinol; Capryl alcohol sec.; Hexyl methyl carbinol;
02.023	2805	72	3391-86-4	Окт-1-ен-3-ол	Oct-1-en-3-ol	Amyl vinyl carbinol; (Amylvinylcarbinol); Matsutake alcohol; Matsuka alcohol; n-Pentyl vinyl carbinol;
02.024	2365	73	112-30-1	Декан-1-ол	Decan-1-ol	Alcohol C-10; n-Decyl alcohol; Nonylacarbinol; Decylic alcohol; Capric alcohol;
02.026	2391	75	106-21-8	3,7-Диметиллоктан-1-ол	3,7-Dimethyloctan-1-ol	Tetrahydrogeraniol; Dihydrocitronellol;
02.027	2980	76	6812-78-8	Родинол	Rhodinol	alpha-Citronellol; 2,6-Dimethyl-1-octen-8-ol; 3,7-Dimethyloct-7-en-1-ol
02.028	3060	77	78-69-3	3,7-Диметиллоктан-3-ол	3,7-Dimethyloctan-3-ol	Tetrahydrolinalool; Tetrahydrolinalol; 1-Ethyl-1,5-dimethyl hexanol;
02.029	2478	78	4602-84-0	3,7,11-Триметилдодек а-2,6,10-триен-1-ол	3,7,11-Trimethyldodeca-2,6,10-trien-1-ol	Farnesol; 2,6,10-Trimethyl-2,6,10-dodecatrien-12-ol;
02.030	2065	79	101-85-9	Альфа-Пентилкоричный спирт	alpha-Pentylcinnamyl alcohol	n-Amyl cinnamic alcohol; 2-Amyl-3-phenyl-2-propen-1-ol; 2-Benzylidene-heptanol; 2-Pentyl-3-phenylprop-2-enol
02.031	2885	80	122-97-4	3-Фенилпропан-1-ол	3-Phenylpropan-1-ol	Benzylethyl alcohol; Hydrocinnamyl alcohol; Phenylpropyl alcohol; Dihydrocinnamyl alcohol;



02.033	2884	82	93-54-9	1-Фенилпропан-1-ол	1-Phenylpropan-1-ol	Phenyl ethyl carbinol; 1-Phenylpropyl alcohol; alpha-Ethylbenzyl alcohol; Ethyl phenyl carbinol;
02.034	2953	83	705-73-7	1-Фенилпентан-2-ол	1-Phenylpentan-2-ol	alpha-Propylphenethyl alcohol; Benzyl propyl carbinol; Benzylbutyl alcohol; Benzylpropyl carbinol; n-Propyl benzyl carbinol;
02.035	2393	84	100-86-7	2-Метил-1-фенилпропан-2-ол	2-Methyl-1-phenylpropan-2-ol	2-Benzyl-2-propanol; 2-Hydroxy-2-methyl-1-phenylpropanone; Benzyl dimethyl carbinol;
02.036	2879	85	2344-70-9	4-Фенилбутан-2-ол	4-Phenylbutan-2-ol	Phenylethyl methyl carbinol; Methyl 2-phenylethyl carbinol;
02.037	2883	86	10415-879	3-Метил-1-фенилпентан-3-ол	3-Methyl-1-phenylpentan-3-ol	Phenylethyl methyl ethyl carbinol; 3-Methyl-1-phenyl-3-pentanol;
02.038	2480	87	1632-73-1	Фенхол	Fenchyl alcohol	2-Fenchanol; alpha-Fenchol; 1,3,3-Trimethyl-2-norbornanol; 1,3,3-Trimethylbicyclo-2,2,1-heptan-2-ol; 1,3,3-trimethyl-bicyclo{2.2.1}heptan-2-ol
02.039	2933	88	536-60-7	4-Изопропилбензиловый спирт	4-Isopropylbenzyl alcohol	Cuminol; p-Cymen-7-ol; Cuminy alcohol; Cuminic alcohol; p-Cymen-7-ol;
02.040	2056	514	71-41-0	Пентан-1-ол	Pentan-1-ol	Amyl alcohol; Pentyl alcohol; n-Butyl carbinol;
02.041		515	75-85-4	2-Метилбутан-2-ол	2-Methylbutan-2-ol	t-Amyl alcohol;
02.042	3242	530	1197-01-9	2-(4-Метилфенил)пропан-2-ол	2-(4-Methylphenyl)propan-2-ol	p-Cymen-8-ol; p-alpha-alpha-Trimethylbenzyl alcohol; 2-p-Tolyl-2-propanol; 8-Hydroxy p-cymene; Dimethyl p-Tolyl carbinol;
02.043		543	97-95-0	2-Этилбутан-1-ол	2-Ethylbutan-1-ol	
02.044	3547	544	589-82-2	Гептан-3-ол	Heptan-3-ol	n-Butyl ethyl carbinol; Ethyl butyl carbinol;
02.045	3288	554	543-49-7	Гептан-2-ол	Heptan-2-ol	2-Hydroxyheptane; Amyl methyl carbinol; sec-Heptyl alcohol; Methyl amyl carbinol;
02.047	2586	559	107-74-4	3,7-Диметил октан-1,7-диол	3,7-Dimethyloctane-1,7-diol	Hydroxycitronello; 7-Hydroxy-3,7-dimethyloctan-1-ol; Hydroxydihydrocitronello;
02.049	2780	589	7786-44-9	Нона-2,6-диен-1-ол	Nona-2,6-dien-1-ol	Nonadienol; Violet leaf alcohol;
02.050		665	20273-249	Пент-2-ен-1-ол	Pent-2-en-1-ol	
02.051	3618	674	10521-912	5-Фенилпентан-1-ол	5-Phenylpentan-1-ol	Phenylamyl alcohol;
02.052		698	75-65-0	2-Метилпропан-2-ол	2-Methylpropan-2-ol	1,1-Dimethylethanol; tert. Butanol; 1,1-Dimethyl ethanol
02.054		701	80-53-5	p-Ментан-1,8-диол	p-Menthane-1,8-diol	Terpin hydrate; 4-Hydroxy-alpha,alpha,4-trimethyl cyclohexane methanol; dipentene glycol,;
02.055	3324	702	3452-97-9	3,5,5-Триметилгексан-1-ол	3,5,5-Trimethylhexan-1-ol	Trimethylhexyl alcohol; Isononanol;

02.056	2563	750	928-96-1	Гекс-3(цис)-ен-1-ол	Hex-3(cis)-en-1-ol	Leaf alcohol; beta-gamma-hexenol; cis-3-hexenol; Blatteralkohol; Hex-3-en-1-ol;
02.057	3097	751	112-42-5	Ундекан-1-ол	Undecan-1-ol	Alcohol C-11, undecylic; Undecyl alcohol; Decyl carbinol; 1-Hendecanol;
02.058	2770	2018	106-25-2	Нерол	Nerol	Nerolol; Neraniol; Nerosol; Cis-3,7-Dimethyl-2,6,octadien-1-ol; Allerol; cis-2,6-Dimethyl-2,6-octadien-8-ol; Nerodol; Neraniol; 3,7-Dimethyl-2(cis),6-octadien-1-ol
02.059	2158	2020	124-76-5	Изоборнеол	Isoborneol	Isocamphol; Borneol(iso); (iso)-Camphol; Isobornyl alcohol; (exo)-2-Camphanol; (exo)-2-Bornanol; Bornan-2-ol; 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-ol
02.060	2664	2024	536-59-4	п-Мента-1,8-диен-7-ол	p-Mentha-1,8-dien-7-ol	Perilla alcohol; Perillyl alcohol; 1-Hydroxymethyl-4-isopropenyl-1-cyclohexene; Dihydrocuminic alcohol;
02.061	2379	2025	619-01-2	Дигидрокарвеол	Dihydrocarveol	8-p-Menthen-2-ol; 6-Methyl-3-isopropenylcyclohexanol; p-Menth-8-en-2-ol
02.062	2247	2027	99-48-9	Карвеол	Carveol	p-Mentha-6,8-dien-2-ol; 1-Methyl-4-isopropenyl-6-cyclohexen-2-ol; p-Mentha-1,8-dien-2-ol
02.063	2666	2028	2216-52-6	d-Неоментол	d-Neomenthol	2-Propyl-iso-5-Methylcyclohexanol; 2-Isopropyl-5-methylcyclohexanol; 2-Isopropyl-5-methylcyclohexanol [1S-(1alpha,2alpha,5beta)]-
02.064	2685	2030	98-85-1	1-Фенилэтан-1-ол	1-Phenylethan-1-ol	alpha-Methylbenzyl alcohol; Methyl phenyl carbinol; Methylphenyl carbinol; Styrallyl alcohol; 1-Phenyl-1-hydroxyethane;
02.065	2208	2031	7779-78-4	4-Метил-1-фенилпентан-2-ол	4-Methyl-1-phenylpentan-2-ol	Benzyl isobutyl carbinol; alpha-Isobutylphenethyl alcohol; 2-Methylpropyl benzyl carbinol; 4-Methyl-1-phenyl-2-pentanol;
02.066	2880	2032	17488-652	4-Фенилбут-3-ен-2-ол	4-Phenylbut-3-en-2-ol	Methyl styryl carbinol; alpha-Methylcinnamyl alcohol;
02.067	2962	2033	89-79-2	Изопулегол	Isopulegol	1-Methyl-4-isopropenylcyclohexan-3-ol; p-Menth-8(9)-en-3-ol; p-Menth-8-en-3-ol
02.070		2138	108-93-0	Циклогексанол	Cyclohexanol	Hexalin; Hexahydrophenol; Hydroxy cyclohexane;
02.071	3562	2228	499-69-4	п-Ментан-2-ол	p-Menthan-2-ol	Hexahydrocarvacrol; 3-Isopropyl-6-methylcyclohexanol; Carvomenthol; 1-Methyl-4-isopropyl-2-cyclohexanol;
02.072	2248	2229	562-74-3	4-Терпинеол	4-Terpinenol	4-Carvomenthenol; 1-Methyl-4-isopropylcyclohex-1-en-4-ol; 1-p-Menthen-4-ol; Origanol; 1-Methyl-4-isopropyl; p-Menth-1-en-4-ol
02.073	2732	2257	1123-85-9	2-Фенилпропан-1-ол	2-Phenylpropan-1-ol	Hydratropic alcohol; Hydratropyl alcohol; 2-Phenylpropyl alcohol;
02.074	3430	2295	6126-50-7	Гекс-4-ен-1-ол	Hex-4-en-1-ol	
02.075		2296	18675-348	нео-	neo-Dihydrocarveol	p-Menth-8-en-2-ol

				Дигидрокарвеол		
02.076	3998	2346	137-32-6	2-Метилбутан-1-ол	2-Methylbutan-1-ol	
02.077		2349	584-02-1	Пентан-3-ол	Pentan-3-ol	Diethyl carbinol;
02.078	2419	11891	64-17-5	Этанол	Ethanol	Methyl carbinol; Punctilious (USD); Absolute alc.; Anhydrous alc.; Dehydrated alc.; Ethyl hydrate; Ethyl hydroxide;
02.079	2929		67-63-0	Изопропанол	Isopropanol	Isopropyl alcohol; Propan-2-ol; Isopropanol; Dimethyl carbinol; Propyl iso alcohol; Propanol(iso); Petrohol; sec-Propyl alcohol;
02.080	3139	10197	536-50-5	1-(п-Толил)этан-1-ол	1-(p-Tolyl)ethan-1-ol	p-alpha-Dimethylbenzyl alcohol; p-Tolyl methyl carbinol; 1-p-Tolyl-1-ethanol; 4-Toluene; p-Tolyl methyl carbinol; 1-(4-Methylphenyl)ethan-1-ol
02.081	3140	11719	108-82-7	2,6-Диметилгептан-4-ол	2,6-Dimethylheptan-4-ol	Di-isobutyl carbinol; Diisobutyl carbinol,;
02.082	3151	11763	104-76-7	2-Этилгексан-1-ол	2-Ethylhexan-1-ol	2-Ethylhexyl alcohol;
02.083	3179	10248	491-04-3	п-Мент-1-ен-3-ол	p-Menth-1-en-3-ol	Piperitol;
02.085	3239	10309	546-79-2	Сабинен гидрат	Sabinene hydrate	Sabinenehydrate; Thujan-4-ol; 1-Isopropyl-4-methylbicyclo[3.1.0]hexan-4-ol
02.086	3246	11826	1653-30-1	Ундекан-2-ол	Undecan-2-ol	sec-Undecylic alcohol; Methyl nonyl carbinol;
02.087	3315	11803	628-99-9	Нонан-2-ол	Nonan-2-ol	Methyl-n-Heptyl carbinol; sec-n-Nonanol; Methyl heptyl carbinol;
02.088	3316	11696	6032-29-7	Пентан-2-ол	Pentan-2-ol	sec-Amyl alcohol; alpha-Methyl butanol; Methyl n-propyl carbinol; Methyl n-Propyl carbinol; Propyl methyl carbinol;
02.089	3351	11775	623-37-0	Гексан-3-ол	Hexan-3-ol	Ethyl propyl carbinol;
02.090	3379	10292	31502-144	Нон-2(транс)-ен-1-ол	Non-2(trans)-en-1-ol	
02.091	3439	10285	515-00-4	Миртенол	Myrtenol	6,6-Dimethyl-2-oxomethylbicyclo[1,3,3]-hept-2-ene; 10-Hydroxy-2-pinene; 2-pinen-10-ol; 2-Hydroxymethyl-6,6-dimethylbicyclo[3.1.1]hept-2-ene
02.092	3446	10195	57069-860	Дегидродигидроинонол	Dehydrodihydroionol	alpha,2,6,6-Tetramethyl-1,3-cyclohexadien-1-propanol; 4-(2,6,6-Trimethyl-1,3-cyclohexadienyl)-butan-2-ol
02.093	3465	10294	35854-865	Нон-6-ен-1-ол	Non-6-en-1-ol	Cis-6-Nonenol;
02.094	3467	10296	20125-842	Окт-3-ен-1-ол	Oct-3-en-1-ol	cis-3-Octenol;
02.095	3491	10208	18368-917	2-Этилфенхол	2-Ethylfenchol	2-Ethyl-1,3,3-trimethyl-2-norbornanol; 2-Ethyl-1,3,3-trimethyl-bicyclo[2.2.1]heptan-2-ol
02.096	3563	10252	586-82-3	1-Терпинеол	1-Terpinenol	4-Isopropyl-1-methyl-3-cyclohexen-1-ol; 1-Methyl-4-isopropyl-3-cyclohexen-1-ol; p-Menthen-1-ol, p-3-Methenol-1; p-Menth-3-en-1-ol
02.097	3564	10254	138-87-4	бета-Терпинеол	beta-Terpineol	1-Methyl-4-isopropenylcyclohexan-1-ol; 4-

						Isopropenyl-1-methyl-1-cyclohexanol; p-Menth-8(10)-en-1-ol
02.098	3581	11715	589-98-0	Октан-3-ол	Octan-3-ol	Ethyl n-amyl carbinol; amylethylcarbinol; d-n-octanol; Amyl ethyl carbinol;
02.099	3584	11717	616-25-1	Пент-1-ен-3-ол	Pent-1-en-3-ol	B-Pentenol; Vinyl ethyl carbinol; Ethyl vinyl carbinol;
02.100	3587	10303	5947-36-4	Пинокарвеол	Pinocarveol	2(10)-Pinen-3-ol; 6,6-Dimethyl-3-hydroxy-2-methylenebicyclo[3.1.1]heptane; 2(10)-Pinenol-3; 3-Hydroxy-6,6-dimethyl-2-methylene-bicyclo[3.1.1]heptane
02.101	3594	10304	473-67-6	Пин-2-ен-4-ол	Pin-2-en-4-ol	Verbenol; 4-Hydroxy-2,6,6-trimethylbicyclo[3.1.1]hept-2-ene; d-Verbenol; 2-Pinenol-4; 4,6,6-Trimethylbicyclo[3.1.1]hept-3-en-2-one
02.102	3602		76649-144	Окт-3-ен-2-ол	Oct-3-en-2-ol	trans-3-Octen-2-ol;
02.103	3605	10194	1565-81-7	Декан-3-ол	Decan-3-ol	Heptyl ethyl carbinol; Ethyl heptyl carbinol;
02.104	3608	10220	4798-44-1	Гекс-1-ен-3-ол	Hex-1-en-3-ol	1-Vinyl butan-1-ol; Vinyl propyl carbinol; Propyl vinyl carbinol;
02.105	3624		25312-349	4-(2,6,6-Триметил-2-циклогексенил)бут-3-ен-2-ол	4-(2,6,6-Trimethyl-2-cyclohexenyl)but-3-en-2-ol	alpha-Ionol;
02.106	3625		22029-761	4-(2,2,6-Триметил-1-циклогексенил)бут-3-ен-2-ол	4-(2,2,6-Trimethyl-1-cyclohexenyl)but-3-en-2-ol	beta-Ionol;
02.107	3627		3293-47-8	Дигидро-бета-ионол	Dihydro-beta-ionol	$\beta$ -Dihydroionol; 4-(2,2,6-Trimethylcyclohex-1-enyl)-butan-2-ol
02.108	3629	10281	103-05-9	2-Метил-4-фенилбутан-2-ол	2-Methyl-4-phenylbutan-2-ol	Phenylethyl dimethyl carbinol; 1,1-Dimethyl-3-phenyl-1-propanol; Dimethyl phenylethyl carbinol;
02.109	3647	11795	556-82-1	3-Метилбут-2-ен-1-ол	3-Methylbut-2-en-1-ol	Prenol;
02.110	3663		36806-469	2,6-Диметилгепт-6-ен-1-ол	2,6-Dimethylhept-6-en-1-ol	
02.111	3703		598-75-4	3-Метилбутан-2-ол	3-Methylbutan-2-ol	Methyl isopropyl carbinol; Isopropyl methyl carbinol;
02.112	3720	10292	41453-569	Нон-2(цис)-ен-1-ол	Non-2(cis)-en-1-ol	z-2-Nonen-1-ol;
02.113	3722		64275-736	Окт-5(цис)-ен-1-ол	Oct-5(cis)-en-1-ol	z-5-Octen-1-ol;
02.114	3741		1901-38-8	2-(2,2,3-Триметилциклопент-3-енил)этан-1-ол	2-(2,2,3-Trimethylcyclopent-3-enyl)ethan-1-ol	alpha-Campholenic alcohol; 2-(2,3,3-trimethylcyclopent-3-en-1-yl)ethanol;
02.115	3762	10275	589-35-5	3-Метилпентан-1-ол	3-Methylpentan-1-ol	2-Ethyl-4-butanol;
02.119		10189	28231-030	Цедренол	Cedrenol	2,6,6-Trimethyl-tricyclo[5.3.1.0(1.5)]undec-8-en-8-yl methanol
02.120		10190	77-53-2	Цедрол	Cedrol	Cedarwood oil alcohols; Octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol;

						8βH-cedran-8-ol; 2,6,6,8-Tetramethyl-tricyclo[5.3.1.0(1.5)]undecan-8-ol
02.121		11735	78-92-2	Бутан-2-ол	Butan-2-ol	2-Hydroxybutane; Butylene hydrate; Methyl Ethyl carbinol; sec-Butyl Alcohol;
02.122		10239	3269-90-7	p-Мента-1,8(10)-диен-9-ол	p-Mentha-1,8(10)-dien-9-ol	p-Mentha-1,8-dien-10-ol;
02.123		11794	115-18-4	2-Метилбут-3-ен-2-ол	2-Methylbut-3-en-2-ol	
02.124		10264	1569-60-4	6-Метилгепт-5ен-2-ол	6-Methylhept-5-en-2ol	
02.125		10319	112-43-6	Ундец-10-ен-1-ол	Undec-10-en-1-ol	Undecen-1-ol; Alcohol C-11; Undecylenic alcohol;
02.126		10314	112-72-1	Тетрадекан-1-ол	Tetradecan-1-ol	Myristic alcohol; Myristyl alcohol; Alcohol C-14;
02.128	2099	66	105-13-5	p-Анисовый спирт	p-Anisyl alcohol	Anisic alcohol; Anise alcohol; 4-Methoxybenzyl alcohol
02.133		10181	513-85-9	Бутан-2,3-диол	Butane-2,3-diol	2,3- Butylene glycol; Dimethyl ethylene glycol;
02.135		10193	96-41-3	Циклопентанол	Cyclopentanol	Cyclopentyl alcohol;
02.136	3824		51100-540	Дец-1-ен-3-ол	Dec-1-en-3-ol	
02.137		11750	22104-809	Дец-2-ен-1-ол	Dec-2-en-1-ol	
02.139	3911	11748	18409-217	Дека-2,4-диен-1-ол	Deca-2,4-dien-1-ol	
02.141	3938		128-50-7	2-(6,6-Диметилбисцикло[3.1.1]гепт-2-ен-2-ил)этан-1-ол	2-(6,6-Dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethan-1-ol	Nopol; 6,6-Dimethyl-2-norpinene-2-ethanol; 2-Hydroxyethyl-6,6-dimethyl-bicyclo[3,1,1]-hept-2-ene;
02.146	3830	10202	29957-435	3,7-Диметилокта-1,5,7-триен-3-ол	3,7-Dimethylocta-1,5,7-trien-3-ol	
02.148		11760	10203-288	Додекан-2-ол	Dodecan-2-ol	
02.149		10205	639-99-6	Элемол	Elemol	2-(4-Methyl-3-isopropylene-4-vinylcyclohexyl) propan-2-ol
02.152		10219	10606-470	Гепт-3-ен-1-ол	Hept-3-en-1-ol	
02.153	4127		33467-797	Транс-2, транс-4 гептадиен-1-ол	2,4-Heptadien-1-ol, (2E, 4E) -;	Trans- 2- trans- 4- heptadien- 1- ol, 2,4-Heptadien- 1- ol, (E, E) -; (2E, 4E)-Heptadienol; (E, E)- Hepta- 2,4- dien- 1- ol
02.155	4129	10218	4938-52-7	1-Гептен-3-ол	1-Hepten-3-ol	
02.156	3924	69	928-94-9	Гекс-2(цис)-ен-1-ол	Hex-2(cis)-en-1-ol	2-Hexenol;
02.157	2562	69	2305-21-7	Гекс-2(транс)-ен-1-ол	Hex-2(trans)-en-1-ol	2-Hexenol;
02.159	2563	750	544-12-7	Гекс-3-ен-1-ол	Hex-3-en-1-ol	Leaf alcohol; beta-gamma-hexenol; cis-3-hexenol;
02.162	3922		111-28-4	Гекса-2,4-диен-1-ол	Hexa-2,4-dien-1-ol	Sorbic alcohol; 1-Hydroxy-2,4-hexadiene; Sorbyl alcohol;
02.165	3987		623-05-2	4-	4-Hydroxybenzyl	(4-Hydroxyphenyl) methanol; p-

				Гидроксibenзиловый спирт	alcohol	(Hydroxymethyl) phenol; p-Hydroxybenzyl alcohol; 4-Hydroxybenzene methanol;
02.166		10226	501-94-0	2-(4-Гидроксифенил)этан-1-ол	2-(4-Hydroxyphenyl)ethan-1-ol	4-Hydroxyphenethyl alcohol; 4-Hydroxybenzeneethanol;
02.168		10233	505-32-8	Изофитол	Isophytol	3,7,11,15- Tetramethylhexadec-1-en-3-ol
02.174	4178	10258	4675-87-0	2-Метилбут-2-ен-1-ол	2-Methylbut-2-en-1-ol	
02.175		10259	4516-90-9	2-Метилбут-3-ен-1-ол	2-Methylbut-3-en-1-ol	
02.176		10260	763-32-6	3-Метилбут-3-ен-1-ол	3-Methylbut-3-en-1-ol	
02.177		10266	617-29-8	2-Метилгексан-3-ол	2-Methylhexan-3-ol	
02.180		10278	626-89-1	4-Метилпентан-1-ол	4-Methylpentan-1-ol	Isohexanol;
02.181		10274	590-36-3	2-Метилпентан-2-ол	2-Methylpentan-2-ol	2-Methyl-2-pentanol;
02.182		10276	565-60-6	3-Метилпентан-2-ол	3-Methylpentan-2-ol	
02.183		10279	108-11-2	4-Метилпентан-2-ол	4-Methylpentan-2-ol	Methylamyl alcohol; sec-Hexyl alcohol; Methyl isobutyl carbinol;
02.184		10277	77-74-7	3-Метилпентан-3-ол	3-Methylpentan-3-ol	
02.187		10291	21964-443	Нон-1-ен-3-ол	Non-1-en-3-ol	n-Hexyl vinyl carbinol;
02.188	3951	11802	62488-566	Нона-2,4-диен-1-ол	Nona-2,4-dien-1-ol	
02.189	3885	10289	76649-257	Нона-3,6-диен-1-ол	Nona-3,6-dien-1-ol	
02.190		10290	624-51-1	Нонан-3-ол	Nonan-3-ol	Hexyl ethyl carbinol; 3-Nonanol; Ethyl n-Hexyl carbinol;
02.192	3887	11804	22104-785	Окт-2-ен-1-ол	Oct-2-en-1-ol	
02.193	3888		4798-61-2	Окт-2-ен-4-ол	Oct-2-en-4-ol	2-Octen-4-ol;
02.197		10173	41199-193	1,2,3,4,4а,5,6,7-Октагидро-2,5,5-триметилнафталин-2-ол	1,2,3,4,4а,5,6,7-Octahydro-2,5,5-trimethylnaphthalen-2-ol	Ambrinol; 2,5,5- Trimethyl-2-hydroxyoctalin;
02.203		11704	617-94-7	2-Фенилпропан-2-ол	2-Phenylpropan-2-ol	Dimethyl phenyl carbinol; Phenyl Isopropanol; Phenyl dimethylcarbinol; Benzenemethanol;
02.204	4196	10302	150-86-7	Фитол	Phytol	3,7,11,15- Tetramethylhexadec-2-en-1-ol
02.205		10306	495-76-1	Пиперониловый спирт	Piperonyl alcohol	Helioalcohol; 1,3-Benzodioxole-5-methanol; 3,4-Methylenedioxybenzyl alcohol
02.206		10311	515-03-7	Сclareол	Sclareol	Labd-14-ene-8,13-diol; 4,6,10,10-Tetramethyl-5-(3,3-dimethylpent-4-enyl)-bicyclo[4.4.0]decan-4-ol
02.207	4079		21653-203	Туйиловый спирт	Thujyl alcohol	Bicyclo[ 3.1.0] hexan- 3- ol, 4- methyl- 1-( 1-

						methyl-ethyl)-, (1S, 3S, 4R, 5R) -; 3-Thujanol, (1S, 3S, 4R, 5R)-(-) -; Bicyclo[3.1.0] hexan- 3- ol, 4- methyl- 1-( 1- methyl-ethyl)-, [1S-( 1.alpha., 3.alpha., 4.alpha., 5.alpha.)] -; (-)- 3- Neoisothujanol; (-)-Thujol; 3- Neoisothujanol, (-) -; Thujol, (-) -
02.209	3962		116-02-9	3,3,5-Триметилциклогексан-1-ол	3,3,5-Trimethylcyclohexan-1-ol	Cyclonol; Homomenthol;
02.210	4068		37617-031	2-Ундецен-1-ол	2-Undecen-1-ol	1-Hydroxy-2-undecene; trans-2-Undecenol
02.213	3737	690	498-00-0	Ванилиновый спирт	Vanillyl alcohol	4-Hydroxy-3-methoxybenzyl alcohol
02.214		10321	89-88-3	Ветиверол	Vetiverol	Vetivenol; Vetivol; 2-Hydroxymethyl-6-methyl-9-(1-methylene-ethyl)-bicyclo[5.3.0]decane and 2-Hydroxymethylisoprop-5-enyl-tricyclo[6.2.1.0(3.7)]undecane
02.216	3006	74	77-42-9	12-бета-Сантален-14-ол	12-beta-Santalen-14-ol	beta-Santalol;
02.217	3006	74	115-71-9	12-альфа-Сантален-14-ол	12-alpha-Santalen-14-ol	alpha-Santalol;
02.218	2665	63	1490-04-6	DL-Ментол	DL-Menthol	
02.222		10298	39161-198	3-Пентенол-1	3-Pentenol-1	
02.224	3784		87061-049	3-(1-Ментокси)пропан-1,2-диол	3-(1-Menthoxy)propane 1,2-diol	
02.226		67	142-50-7	[S-(цис)]-3,7,11-Триметил-1,6,10-додекатриен-3-ол	[S-(cis)]-3,7,11-Trimethyl-1,6,10-dodecatrien-3-ol	Nerolidol
02.229	2309	59	7540-51-4	(-)-3,7-Диметил-6-октан-1-ол	(-)-3,7-Dimethyl-6-octen-1-ol	
02.231	2780	589	28069-729	транс-2, цис-6-Нонадиен-1-ол	tr-2, cis-6-Nonadien-1-ol	
02.234	4049	10293	10340-235	3-Нонен-1-ол	3-Nonen-1-ol	
02.242		10182	111-76-2	2-Бутоксиэтан-1-ол	2-Butoxyethan-1-ol	Ethylene glycol monobutyl ether;
02.243	3884		56805-233	(E)-3-(Z)-6-Нонадиен-1-ол	(E)-3-(Z)-6-Nonadien-1-ol	
03.001	2465	182	470-82-6	1,8-Цинеол	1,8-Cineole	Eucalyptol; 1,8-oxido-p-menthane; 1,3,3-Trimethyl-2-oxabicyclo[2.2.2]octane; 1,8-Epoxy-p-menthane
03.003	2144	521	539-30-0	Бензил этиловый эфир	Benzyl ethyl ether	Ethyl benzyl ether;
03.004	2371	11856	103-50-4	Дибензиловый эфир	Dibenzyl ether	Benzyl ether; Benzyl oxide;
03.005	3131	10911	2679-87-0	2-Бутил этиловый эфир	2-Butyl ethyl ether	Ether, sec-butyl ethyl; Ethyl sec-butyl ether;

03.006	3198	11812	3558-60-9	2-Метоксиэтил бензол	2-Methoxyethyl benzene	Methyl phenethyl ether; Phenethyl methyl ether; Phenylethylmethylether;
03.007	3658	11225	470-67-7	1,4-Цинеол	1,4-Cineole	1,4-Epoxy-p-menthane
03.010	2139	520	588-67-0	Бензил бутиловый эфир	Benzyl butyl ether	
03.011		10910	538-86-3	Бензилметиловый эфир	Benzyl methyl ether	
03.019	3777		22094-004	Пренил этиловый эфир	Prenyl ethyl ether	Ethyl 3-methylbut-2-enyl ether; 1-Ethoxy-3-methylbut-2-ene
03.023	4069		1608-72-6	1-Этоксипропан-2-олацетат	1-Ethoxyethylacetate	
04.002	2922	170	94-86-0	6-Этоксипропан-3-енилфенол	6-Ethoxyprop-3-enylphenol	1-Ethoxy-2-hydroxy-4-propenylbenzene; 5-Propenylguaethol; 3-Propenyl-6-ethoxyphenol; Hydroxymethyl anethole;
04.003	2467	171	97-53-0	Эвгенол	Eugenol	4-Allylguaiacol; 2-Methoxy-4-prop-2-enylphenol; 1-Hydroxy-2-methoxy-4-allylbenzene; 1-Hydroxy-2-methoxy-4-propenylbenzen; 4-Allyl-2-methoxyphenol
04.004	2468	172	97-54-1	Изоэвгенол	Isoeugenol	4-Propenylguaiacol; 2-methoxy-4-propenylphenol; 1-Hydroxy-2-methoxy-4-propen-1-ylbenzene; 2-Methoxy-4-(prop-1-enyl)phenol
04.005	2532	173	90-05-1	2-Метоксифенол	2-Methoxyphenol	Guaiacol; o-Methylcatechol; 1-Hydroxy-2-methoxybenzene; o-Methoxyphenol; 1-Oxy-2-methoxybenzene;
04.006	3066	174	89-83-8	Тимол	Thymol	1-Methyl-3-hydroxy-4-isopropylbenzene; 3-Hydroxy-p-Cymene; alpha-Cymophenol; 2-Isopropyl-5-methylphenol
04.007	2671	175	93-51-6	2-Метокси-4-метилфенол	2-Methoxy-4-methylphenol	4-Methylguaiacol; 1-Hydroxy-2-methoxy-4-methylbenzene; 3-Methoxy-4-hydroxytoluene; Creosol;
04.008	2436	176	2785-89-9	4-Этилгваякол	4-Ethylguaiacol	1-Hydroxy-2-methoxy-4-ethylbenzene; 2-Methoxy-2-ethylphenol; Homocresol; 4-Ethyl-2-methoxyphenol
04.009	2675	177	7786-61-0	2-Метокси-4-винилфенол	2-Methoxy-4-vinylphenol	Vinyl guaiacol; 4-Hydroxy-3-methoxystyrene; p-Vinylcatechol-O-methyl ether; p-Vinylguaiacol;
04.010	2086	183	4180-23-8	1-Метокси-4-(проп-1(транс)-енил)бензол	1-Methoxy-4-(prop-1(trans)-enyl)benzene	trans-Anetole; Isoestragole; 1-Methoxy-4-propenylbenzene; 1-Propene, 1-(4-methoxyphenyl); 4-Methoxy-1-propenylbenzene; Anise camphor;
04.013	2476	186	93-16-3	1,2-Диметокси-4-(проп-1-енил)бензол	1,2-Dimethoxy-4-(prop-1-enyl)benzene	Methyl isoeugenol; 1,2-Dimethoxy-4-propenylbenzene; 4-Propenylveratrole; 1,2-Dimethoxy-4-propen;
04.014	2680	187	578-58-5	1-Метокси-2-метилбензол	1-Methoxy-2-methylbenzene	o-Methylanisole; o-Cresyl methyl ether; 2-Methoxy toluene; o-Methoxytoluene; methyl o-Tolyl ether;
04.015	2681	188	104-93-8	1-Метокси-4-метилбензол	1-Methoxy-4-methylbenzene	p-Methylanisole; o-Methyl-p-Cresol; 4-Methoxytoluene; Methyl p-tolyl ether; p-



						Cresyl methyl ether; p-Methoxytoluene;
04.016	2385	189	151-10-0	1,3-Диметоксибензол	1,3-Dimethoxybenzene	m-Dimethoxybenzene; Resorcinol dimethyl ether; Dimethyl resorcinol;
04.017	2472	190	7784-67-0	1-Этокси-2-метокси-4-(проп-1-енил)бензол	1-Ethoxy-2-methoxy-4-(prop-1-enyl)benzene	Ethyl isoeugenyl ether; 1-Ethoxy-2-methoxy-4-benzene; 2-Ethoxy-5-propenylanisole; Ethyl isoeugenol;
04.018	3698	522	120-11-6	Бензил изоэвгениловый эфир	Benzyl isoeugenyl ether	Benzyl isoeugenol; Isoeugenyl benzyl ether; Benzyl 2-methoxy-4-propenylphenyl ether; 1-Benzoyloxy-2-methoxy-4-propenylbenzene; Benzyl 2-methoxy-4-prop-1-enylphenyl ether
04.019	3595	537	95-87-4	2,5-Диметилфенол	2,5-Dimethylphenol	1-Hydroxy-2,5-dimethylbenzene;
04.020		538	108-68-9	3,5-Диметилфенол	3,5-Dimethylphenol	
04.021		549	620-17-7	3-Этилфенол	3-Ethylphenol	
04.022	3156	550	123-07-9	4-Этилфенол	4-Ethylphenol	4-Hydroxyethylbenzene;
04.026	3530	617	108-39-4	3-Метилфенол	3-Methylphenol	m-Cresol; 1-Hydroxy-3-methylbenzene; 1-Methyl-3-hydroxybenzene; m-Methylphenol;
04.027	3480	618	95-48-7	2-Метилфенол	2-Methylphenol	o-Cresol; 1-Hydroxy-2-methylbenzene; 2-Hydroxy-1-methylbenzene; o-Cresylic acid; o-Hydroxytoluene; o-Methylphenol;
04.028	2337	619	106-44-5	4-Метилфенол	4-Methylphenol	p-Cresol; 4-Hydroxytoluene; 1-Methyl-4-hydroxybenzene; 1-Hydroxy-4-methylbenzene; 4-Cresol; p-Cresylic acid;
04.029		680	120-80-9	Бензол-1,2-диол	Benzene-1,2-diol	Catechol;
04.031	2245	2055	499-75-2	Карвакрол	Carvacrol	2-p-Cymenol; 2-Hydroxy-p-cymenol; 2-Cyclohexen-1-one, 6-methyl-3-(1-methylethyl)-; 2-Hydroxy-p-Cymene; 2-Methyl-5-isopropylphenol; 5-Isopropyl-2-methylphenol
04.032	2097	2056	100-66-3	Анизол	Anisole	Methyl phenyl ether; Phenyl methyl ether; Methoxybenzene
04.033	2768	2058	93-18-5	бета-Нафтил этиловый эфир	beta-Naphthyl ethyl ether	2-Ethoxynaphthalene; Ethyl 2-naphthyl ether; Ethyl beta-Naphthyl ether; Nerolin; Nerolin II;
04.034	2386	2059	150-78-7	1,4-Диметоксибензол	1,4-Dimethoxybenzene	p-Dimethoxybenzene; Hydroquinone dimethyl ether; Dimethylhydroquinone; Dimethyl hydroquinone; 4-Methoxyphenyl methyl ether;
04.035	3667	2201	101-84-8	Дифениловый эфир	Diphenyl ether	Diphenyl oxide; Phenyl ether;
04.036	3137	2233	91-10-1	2,6-Диметоксифенол	2,6-Dimethoxyphenol	2-Hydroxy-1,3-dimethoxybenzene; Pyrogallol dimethyl ether; Syringol;
04.037	3695	2258	622-62-8	4-Этоксифенол	4-Ethoxyphenol	Hydroquinone monoethyl ether; 1-Ethoxy-4-hydroxybenzene; p-Ethoxyphenol;
04.038	2246	11840	4732-13-2	Карвакрил этиловый эфир	Carvacryl ethyl ether	2-Ethoxy-p-Cymene; Ethyl carvacryl ether; 2-Ethoxy-4-isopropyl-1-methylbenzene
04.039	2930	11835	104-45-0	1-Метокси-4-пропилбензол	1-Methoxy-4-propylbenzene	p-Propylanisole; Dihydroanethole; p-n-Propyl anisole; 4-Propylmethoxybenzene;

04.040	3138	11228	6380-23-0	1,2-Диметокси-4-винилбензол	1,2-Dimethoxy-4-vinylbenzene	3,4-Dimethoxystyrene;
04.041	3223	11811	108-95-2	Фенол	Phenol	Carbolic acid; Hydroxybenzene; Benzenol; Phenyl hydroxide;
04.042	3249	11261	576-26-1	2,6-Диметилфенол	2,6-Dimethylphenol	2,6-Xylenol; 2-Hydroxy-1,3-dimethylbenzene;
04.043	3436	11245	1076-56-8	1-Изопропил-2-метокси-4-метилбензол	1-Isopropyl-2-methoxy-4-methylbenzene	Thymol methyl ether; 3-Methoxy-p-cymene; 3-Methoxy-para-Cymene; Thymol methylether;
04.044	3461	11234	88-69-7	2-Изопропилфенол	2-Isopropylphenol	Phenol, 2-(1-methylethyl)-, 1-Hydroxy-1-isopropylbenzene; o-Cumenol; o-Isopropylphenol;
04.045	3485	11905	20920-836	2-(Этоксиметил) фенол	2-(Ethoxymethyl)phenol	
04.046	3522	11908	644-35-9	2-Пропилфенол	2-Propylphenol	1-(2-Hydroxyphenyl)propane;
04.047	3589	11250	108-46-3	Бензол-1,3-диол	Benzene-1,3-diol	Resorcinol; 1,3-Dihydroxybenzene; m-Dihydroxybenzene;
04.048	3596	11262	95-65-8	3,4-Диметилфенол	3,4-Dimethylphenol	3,4-Xylenol; 1-Hydroxy-3,4-dimethylbenzene;
04.049	3598		2785-87-7	2-Метокси-4-пропилфенол	2-Methoxy-4-propylphenol	4-Propyl-ortho-Methoxyphenol; 4-Propylguaicol; 5-Propyl-ortho-Hydroxyanisole; Dihydroeugenol;
04.050	3649		645-56-7	4-Пропилфенол	4-Propylphenol	
04.051	3655	11214	6627-88-9	4-Аллил-2,6-диметоксифенол	4-Allyl-2,6-dimethoxyphenol	Phenol, 2,6-dimethoxy-4-(2-propenyl)-; 4-Allylsyringol; 4-Methoxyeugenol;
04.052	3671	11231	14059-928	4-Этил-2,6-диметоксифенол	4-Ethyl-2,6-dimethoxyphenol	4-Ethylsyringol;
04.053	3704		6638-05-7	4-Метил-2,6-диметоксифенол	4-Methyl-2,6-dimethoxyphenol	4-Methylsyringol; 2,6-Dimethoxy-p-cresol;
04.054	3719	11886	2173-57-1	Изобутил бета-нафтиловый эфир	Isobutyl beta-naphthyl ether	2-Isobutoxynaphthalene; Fragarol; 2-Methylpropyl beta-naphthyl ether
04.055	3728		20675-950	2,6-Диметокси-4-проп-1-енилфенол	2,6-Dimethoxy-4-prop-1-enylphenol	4-Propenylsyringol; 6-Methoxyisoeugenol;
04.056	3729		6766-82-1	2,6-Диметокси-4-пропилфенол	2,6-Dimethoxy-4-propylphenol	4-Propylsyringol;
04.057	3739	11257	2628-17-3	4-Винилфенол	4-Vinylphenol	4-Ethenylphenol; 4-Hydroxystyrene;
04.058	4075	11218	501-92-8	4-Аллилфенол	4-Allylphenol	p-Allylphenol;
04.059		11224	6379-73-3	Карвакрил метиловый эфир	Carvacryl methyl ether	5-Isopropyl-2-methylmethoxy-benzene; 4-Isopropyl-2-methoxy-1-methylbenzene
04.061		11229	28343-228	2,6-Диметокси-4-винилфенол	2,6-Dimethoxy-4-vinylphenol	
04.062	3799	10320	91-16-7	1,2-Диметоксибензол	1,2-Dimethoxybenzene	Veratrole; o-Dimethoxybenzene;
04.063	3828		6738-23-4	1,3-Диметил-4-метоксибензол	1,3-Dimethyl-4-methoxybenzene	2,4-Dimethyl-1-methoxybenzene;

04.064	3918		98-54-4	4-(1,1-Диметилэтил)фенол	4-(1,1-Dimethylethyl)phenol	4-tert-Butylphenol; 1-Hydroxy-4-tert-butylbenzene; Ucar butylphenol;
04.065		11258	526-75-0	2,3-Диметилфенол	2,3-Dimethylphenol	2,3-Xylenol; 1-Hydroxy-2,3-dimethylbenzene;
04.066		11259	105-67-9	2,4-Диметилфенол	2,4-Dimethylphenol	2,4-Xylenol; 1-Hydroxy-2,4-Dimethylbenzene; 4,6-Dimethylphenol;
04.070		11232	90-00-6	2-Этилфенол	2-Ethylphenol	Phlorol; 1-ethyl-2-hydroxybenzene;
04.077		11241	150-76-5	4-Метоксифенол	4-Methoxyphenol	p-Hydroxyanisole; Hydroquinone monomethyl ether;
04.085	3963		2416-94-6	2,3,6-Триметилфенол	2,3,6-Trimethylphenol	3-Hydropseudocumene;
04.088	2086	183	104-46-1	1-Метокси-4-(1пропенил)бензол	1-Methoxy-4-(1propenyl)benzene	Anethole; p-propylanisole; Isoestragole; p-propylphenyl methyl ether; Propenylanisole;
04.093	3796		82654-986	Бутил ванилиновый эфир	Butyl vanillyl ether	4-(Butoxymethyl)-2-methoxyphenol; Butyl 4-hydroxy-3-methoxybenzyl ether
04.094	3815		13184-866	Этил 4-Гидрокси-3-метоксибензиловый эфир+D437	Ethyl 4-hydroxy-3-methoxybenzyl ether	Ethyl 4-hydroxy-3-methoxybenzyl ether
05.001	2003	89	75-07-0	Ацетальдегид	Acetaldehyde	Ethanal; Acetic aldehyde;
05.002	2923	90	123-38-6	Пропаналь	Propanal	Propion aldehyde; Propyl aldehyde; Methylacetaldehyd; Propan-1-al; Aldehyde c-3;
05.003	2219	91	123-72-8	Бутаналь	Butanal	n-Butyraldehyde; Butyl aldehyde; Butyric aldehyde; n-Butanal; Butan-1-al; n-Butyl aldehyde;
05.004	2220	92	78-84-2	2-Метилпропаналь	2-Methylpropanal	Isobutanal; Isobutyraldehyde; Butyraldehyde(iso); Butyl iso aldehyde; Isobutyric aldehyde; Isobutyl aldehyde; Butyric iso aldehyde;
05.005	3098	93	110-62-3	Пентаналь	Pentanal	Valeraldehyde; n-Valeric aldehyde; Amyl aldehyde; Valeric aldehyde; Valeral; Pentan-1-al; Aldehyde c-5;
05.006	2692	94	590-86-3	3-Метилбутаналь	3-Methylbutanal	Isovaleraldehyde; 3-Methylbutylaldehyde; Isoamyl aldehyde; Amyl iso aldehyde; Isovaleric aldehyde; Isovaleraldehyde; Isovaleral;
05.007	2426	95	97-96-1	2-Этилбутаналь	2-Ethylbutanal	2-Ethylbutyraldehyde; Diethyl acetaldehyde;
05.008	2557	96	66-25-1	Гексаналь	Hexanal	Aldehyde C-6; Hexaldehyde; Hexoic aldehyde; Caproic aldehyde; Caproaldehyde; n-Hexaldehyde;
05.009	2797	97	124-13-0	Октаналь	Octanal	Aldehyde C-8; Octyl aldehyde; Caprylic aldehyde; Caprylaldehyde; Octylaldehyde; n-Octylaldehyde;
05.010	2362	98	112-31-2	Деканаль	Decanal	Aldehyde C-10; Decyl aldehyde; Capraldehyde; Capric aldehyde; n-Decyl aldehyde;

05.011	2615	99	112-31-2	Додеканаль	Dodecanal	Aldehyde C-12; Lauric aldehyde; Lauryl Aldehyde; n-dodecylic aldehyde; Duodecylic aldehyde; Lauraldehyde; Dodecan-1-al;
05.012	2583	100	107-75-5	3,7-Диметил-7-гидроксиоктана ль	3,7-Dimethyl-7-hydroxyoctanal	Hydroxycitronellal; 7-hydroxy-3,7-dimethyloctan-1-al; Laurine; Citronellalhydrate,;
05.013	2127	101	100-52-7	Бензальдегид	Benzaldehyde	Benzene methylal; Benzene carbonal; Benzoic aldehyde; Benzene carboxaldehyde;
05.014	2286	102	104-55-2	Коричный альдегид	Cinnamaldehyde	Cinnamic aldehyde; Phenylacrolein; Cinnamal; 3-Phenylpropenal; 3-Phenyl-2-propen-1-al; β-Phenylacrolein; 3-Phenylprop-2-enal
05.015	2670	103	123-11-5	4-Метоксибензальдегид	4-Methoxybenzaldehyde	p-Anisaldehyde; aubepine; Anisic aldehyde; Aubepine liquid;
05.016	2911	104	120-57-0	Пиперональ	Piperonal	Heliotropine; Piperonyl aldehyde; Dioxymethylene protocatechuic aldehyde; 3,4-Methylenedioxybenzaldehyde
05.017	3109	106	120-14-9	Вератровый альдегид	Veratraldehyde	O-Methyl vanillin; p-Veratric aldehyde; Dimethyl ether protocatechualdehyde; 3,4-Dimethoxybenzenecarbonal; 3,4-Dimethoxybenzaldehyde
05.018	3107	107	121-33-5	Ванилин	Vanillin	Methyl protocatechuic aldehyde; Protocatechualdehyde-3-methylether; Vanillic aldehyde; Methylprotocatechuic aldehyde; 4-Hydroxy-3-methoxybenzaldehyde
05.019	2464	108	121-32-4	Этилванилин	Ethyl vanillin	Bourbonal; Ethyl protal; 3-Ethoxyprotocatechualdehyde; 3-Ethoxy-4-hydroxybenzaldehyde
05.020	2303	109	5392-40-5	Цитраль	Citral	Lemarome; Geranial; 3,7-Dimethyl-2,6-octadienal; Neral; 3,7-Dimethylocta-2,6-dienal
05.021	2307	110	106-23-0	Цитронеллаль	Citronellal	3,7-Dimethyl-6-octenal; Rhodinal; 3,7-Dimethyloct-6-enal
05.022	2341	111	122-03-2	4-Изопропилбензальдегид	4-Isopropylbenzaldehyde	Cuminaldehyde; p-isopropylbenzaldehyde; Cuminic aldehyde; Cuminal; Cumaldehyde; p-Propyl iso benzaldehyde;
05.023	2390	112	7779-07-9	2,6-Диметиллоктаналь	2,6-Dimethyloctanal	Isodecylaldehyde; Decylaldehyde(iso);
05.024	2727	113	7786-29-0	2-Метиллоктаналь	2-Methyloctanal	Methylhexylacetaldehyde; Methyl hexyl acetaldehyde;
05.025	2782	114	124-19-6	Нонаналь	Nonanal	Pelargonic aldehyde; Aldehyde C-9; Pelargonaldehyde; Pelargonic aldehyde; Nonanoic aldehyde;
05.026	3068	115	529-20-4	o-Толилальдегид	o-Tolualdehyde	2-Methylbenzaldehyde
05.027	3068	115	1334-78-7	Толилальдегид	Tolualdehyde	Toluic aldehyde (mixed 2,3,4); 2-,3- and 4-Methylbenzaldehyde

05.028	3068	115	620-23-5	м-Толилальдегид	m-Tolualdehyde	3-Methylbenzaldehyde
05.029	3068	115	104-87-0	п-Толилальдегид	p-Tolualdehyde	4-Methylbenzaldehyde
05.030	2874	116	122-78-1	Фенилацетальдегид	Phenylacetaldehyde	alpha-Toluic aldehyde; alpha-Tolualdehyde; Hyacinthin; Phenylacetic aldehyde; Benzylcarboxyaldehyde; 1-Oxo-2-phenylethane;
05.031	2540	117	111-71-7	Гептаналь	Heptanal	Aldehyde C-7; n-Heptaldehyde; Heptyl aldehyde; Heptaldehyde; Enanthaldehyde; Enanthal; Aldehyde Heptan-1-alc-7;
05.032	2763	118	124-25-4	Тетрадеканаль	Tetradecanal	Myristaldehyde; Aldehyde C-14; Myristic aldehyde; Tetradecyl aldehyde; Aldehyde c-14 (Myristic); Tetradecan-1-al;
05.033	2438	120	10031-886	2-Этилгепт-2-еналь	2-Ethylhept-2-enal	2-Ethyl-3-butylacrolein;
05.034	3092	121	112-44-7	Ундеканаль	Undecanal	Undecanoic aldehyde; Undecylic aldehyde; Hendecanal; Aldehyde c-11 undecylic; n-Undecylaldehyde; Undecan-1-al;
05.035	3095	122	112-45-8	Ундец-10-еналь	Undec-10-enal	Undecylenic aldehyde (mixed isomers); Undecenal; Intreleven aldehyde; Aldehyde C-11;
05.036	3094	123	143-14-6	Ундец-9-еналь	Undec-9-enal	Undecylenic aldehyde; Hendecen-9-al; Aldehyde C-11 undecylenic; 9-undecylenic aldehyde;
05.037	2402	124	4826-62-4	2-Додэценаль	2-Dodecenal	3-Nonylacrolein; dodec-2-enal;
05.038	2886	126	93-53-8	2-Фенилпропаналь	2-Phenylpropanal	2-Phenylpropionaldehyde; Hydratropaldehyde; alpha-Methyltolualdehyde; alpha-Methylphenylacetaldehyde; alpha-Phenylpropionaldehyde;
05.039	2191	127	7492-44-6	альфа-Бутилкоричный альдегид	alpha-Butylcinnamaldehyde	2-Benzylidene hexanal; Butyl cinnamic aldehyde; alpha-Butyl-beta-phenylacrolein; 2-Butyl-3-phenylprop-2-enal
05.040	2061	128	122-40-7	альфа-Пентилкоричный альдегид	alpha-Pentylcinnamaldehyde	alpha-Amylcinnamaldehyde; Amyl cinnamic aldehyde; alpha-amyl-beta-phenyl-acrolein; 2-Benzylidene heptanal; alpha-Pentyl-cinnamaldehyde; 2-Pentyl-3-phenylprop-2-enal
05.041	2569	129	101-86-0	альфа-Гексилкоричный альдегид	alpha-Hexylcinnamaldehyde	2-Benzylidene-octanal; alpha-n-Hexyl cinnamic aldehyde; alpha-n-Hexyl-beta-phenyl acrolein; 2-Benzylideneoctanal
05.042	3071	130	104-09-6	п-Толилацетальдегид	p-Tolylacetaldehyde	4-Methylphenylacetaldehyde
05.043	3078	131	99-72-9	2-(п-Толил)пропиононовый альдегид	2-(p-Tolyl)propionaldehyde	p-methyl-alpha-Methylphenylacetaldehyde; p-methylhydratropaldehyde; 2-(4-Methylphenyl)propanal
05.044	2954	132	4395-92-0	п-Изопропилфенилацетальдегид	p-Isopropyl phenylacetaldehyde	Cumylacetaldehyde; 2-(p-Isopropylphenyl)acetaldehyde; Cortexal; Cumylaldehyde; p-Cumen-7-carboxaldehyde; p-Propylphenylacetaldehyde;

05.045	2743	133	103-95-7	3-(п-Куменил)-2-метилпропионовый альдегид	3-(p-Cumenyl)-2-methylpropionaldehyde	Cyclamen aldehyde; p-Isopropyl-alpha-methylhydrocinnamaldehyde; Cyclamal; Cyclaviol; Cyclasal; alpha-Methyl-p-isopropylhydrocinnamaldehyde; 2-Methyl-3-(4-isopropylphenyl)propanal
05.046	2737	134	40654-82-8	2-Метил-4-фенилмасляный альдегид	2-Methyl-4-phenylbutyraldehyde	2-Methyl-4-phenylbutanal;
05.047	3984	558	123-08-0	4-Гидроксибензальдегид	4-Hydroxybenzaldehyde	p-Hydroxybenzaldehyde;
05.048	3181	571	1504-74-1	2-Метоксикоричный альдегид	2-Methoxycinnamaldehyde	beta-o-Methoxyphenyl acrolein; 3-o-Methoxyphenyl-2-propenal; 3-(2-Methoxyphenyl)prop-2-enal
05.049	2691	575	96-17-3	2-Метилмасляный альдегид	2-Methylbutyraldehyde	2-Methylbutanal; Methyl ethyl acetaldehyde; alpha-Methyl butyraldehyde; 2-Methylbutanal-1;
05.050	2697	578	101-39-3	альфа-Метилкоричный альдегид	alpha-Methylcinnamaldehyde	2-Methylcinnamaldehyde; alpha-methylcinnamic aldehyde; alpha-Methylcinnamal; alpha-Methyl cinnamic aldehyde; 2-Methyl-3-phenylprop-2-enal
05.051	3182	584	65405-676	3-(4-Метоксифенил)-2-метилпроп-2-еналь	3-(4-Methoxyphenyl)-2-methylprop-2-enal	alpha-Methyl-p-methoxycinnamaldehyde; 3-(p-Methoxyphenyl)-2-methyl-2-propenal;
05.052	2748	587	41496-439	2-Метил-3-(п-толил)пропионовый альдегид	2-Methyl-3-(p-tolyl)propionaldehyde	2-Methyl-3-(4-methylphenyl)propanal;
05.053	4010	594	123-63-7	2,4,6-Триметил-1,3,5-триоксан	2,4,6-Trimethyl-1,3,5-trioxane	Paraldehyde; Paracetaldehyde;
05.055	3004	605	90-02-8	Салициловый альдегид	Salicylaldehyde	Salicylic aldehyde; o-Hydroxybenzaldehyde; Salicylal; 2-Hydroxybenzaldehyde
05.056	2413	626	10031-82-0	4-Этоксibenзальдегид	4-Ethoxybenzaldehyde	Homoanisaldehyde;
05.057	3429	640	142-83-6	Гекса-2(транс),4(транс)-диеналь	Hexa-2(trans),4(trans)-dienal	2-Propylene acrolein; Sorbic aldehyde; Hexa-2,4-dienal;
05.058	3377	659	557-48-2	Нона-2(транс),6(цис)-диеналь	Nona-2(trans),6(cis)-dienal	2,6-Nonadienal; Cucumber aldehyde; Nona-2,6-dienal;
05.059	3580	661	2277-19-2	Нон-6(цис)-еналь	Non-6(cis)-enal	cis-6-Nonen-1-al; Non-6-enal;
05.060	3215	663	2363-89-5	Окт-2-еналь	Oct-2-enal	alpha-Amylacrolein; 2-Pentyl acrolein;
05.061		664	63826-25-5	Окт-6-еналь	Oct-6-enal	
05.062	3224	670	4411-89-6	2-Фенилкротоновый альдегид	2-Phenylcrotonaldehyde	2-Phenyl-but-2-en-1-al; 2-Phenylbut-2(trans)-enal
05.064	3638	685	13552-96-0	Тридека-2(транс),4(цис),7(цис)-	Trideca-2(trans),4(cis),7(cis)-	Trideca-2,4,7-trienal;

				ис)-триеналь	trienal	
05.066		703	120-25-2	4-Этокси-3-метоксибензальдегид	4-Ethoxy-3-methoxybenzaldehyde	Vanillin ethyl ether;
05.068	3756	705	4748-78-1	4-Этилбензальдегид	4-Ethylbenzaldehyde	p-Ethylbenzaldehyde;
05.069	3413	706	123-15-9	2-Метилпентаналь	2-Methylpentanal	2-Methylvaleraldehyde;
05.070	3165	730	2463-63-0	2-Гептеналь	2-Heptenal	3-Butylacrolein; $\beta$ -Butylacrolein; Hept-2-enal; Trans-Hept-2-enal;
05.071	3212	732	6750-03-4	Нона-2,4-диеналь	Nona-2,4-dienal	
05.072	3213	733	18829-566	транс-2-Ноненаль	trans-2-Nonenal	3-Hexyl-2-propenal; Non-2-enal; 3 or $\beta$ -hexyl acrolein; Heptyliceneacetaldehyde;
05.073	2560	748	6728-26-3	Гекс-2(транс)-еналь	Hex-2(trans)-enal	$\beta$ -Propylacrolein; Leaf aldehyde; trans-hex-2-enal;
05.074	2389	2006	106-72-9	2,6-Диметилгепт-5-еналь	2,6-Dimethylhept-5enal	Melonal; 2,6-Dimethyl-2-hepten-7-al;
05.075	2561	2008	6789-80-6	Гекс-3(цис)-еналь	Hex-3(cis)-enal	cis-beta,gamma-Hexylenic aldehyde; Hex-3-enal;
05.076	2366	2009	3913-71-1	Дец-2-еналь	Dec-2-enal	Decenaldehyde; 3-Heptylacrolein; Decylenic aldehyde; Dec-2-enal; 2-Decen-1-al;
05.077	2749	2010	110-41-8	2-Метилундеканаль	2-Methylundecanal	Methyl nonyl acetaldehyde; Aldehyde C-12; MNA; 2-Methylhendecanal; Methyl nonyl acetaldehyde;
05.078	3082	2011	7774-82-5	Тридец-2-еналь	Tridec-2-enal	3-Decylacrolein;
05.079	2310	2012	7492-67-3	Цитронеллилоксияцетальдегид	Citronellyl oxoacetaldehyde	Citronelloxyacetaldehyde; 6,10-Dimethyl-3-oxa-9-undecenal; 6,10-Dimethyl-3-oxaundec-9-enal
05.080	2887	2013	104-53-0	3-Фенилпропаналь	3-Phenylpropanal	3-Phenylpropionaldehyde; Hydrocinnamaldehyde; Phenylpropyl aldehyde; Benzyl acetaldehyde; beta-Phenyl propionaldehyde;
05.081	3135	2120	2363-88-4	2,4-Декадиеналь	2,4-Decadienal	Deca-2,4-dienal;
05.082		2121	13553-09-8	Додека-3,6-диеналь	Dodeca-3,6-dienal	
05.084	3164	729	4313-03-5	Гепта-2,4-диеналь	Hepta-2,4-dienal	
05.085	3289	2124	6728-31-0	Гепт-4-еналь	Hept-4-enal	cis-4-Hepten-1-al; cis-4-Ethylidene butyraldehyde; n-Propylidenebutyraldehyde;
05.090	3194	2129	623-36-9	2-Метилпент-2-еналь	2-Methylpent-2-enal	alpha-Methyl-beta-ethyl acrolein; 2,4-Dimethylcrotonaldehyde;
05.091	3697	2130	698-27-1	2-Гидрокси-4-метилбензальдегид	2-Hydroxy-4-methylbenzaldehyde	4-Methylsalicylaldehyde; 4-Methylsalicylic aldehyde; 2,4-Cresotaldehyde;
05.094	2957	2261	7775-00-0	3-(4-Изопропилфенил)пропионовый альдегид	3-(4-Isopropylphenyl)propionaldehyde	Cuminyl acetaldehyde; Cuminylacetaldehyde; p-Cymylpropanal; p-isopropylhydrocinnamaldehyde; p-propylhydrocinnamaldehyde;

05.095	3407	2281	497-03-0	2-Метилкротоновый альдегид	2-Methylcrotonaldehyde	2-Methylbut-2(trans)-enal
05.096	3264	2297	30390-502	4-Деценаль	4-Decenal	Decenaldehyde, Dec-4-enal (cis);
05.097	2738	135	2439-44-3	3-Метил-2-фенилбутиральдегид	3-Methyl-2-phenylbutyraldehyde	3-Methyl-2-phenylbutanal; alpha-Isopropylphenylacetaldehyde; alpha-isopropyl phenylacetaldehyde;
05.098	3178	10347	29548-149	p-Мент-1-ен-9-аль	p-Menth-1-en-9-al	Carvomenthenal;
05.099	3199	10365	21834-924	5-Метил-2-фенилгекс-2-еналь	5-Methyl-2-phenylhex-2-enal	2-Phenyl-5-methyl-2-hexenal;
05.100	3200	10366	26643-914	4-Метил-2-фенилпент-2-еналь	4-Methyl-2-phenylpent-2-enal	
05.101	3217	11695	764-40-9	Пента-2,4-диеналь	Penta-2,4-dienal	
05.102	3218	10375	764-39-6	Пент-2-еналь	Pent-2-enal	3-Ethylacrolein;
05.103	3318	10378	939-21-9	3-Фенилпент-4-еналь	3-Phenylpent-4-enal	beta-Vinylhydrocinnamaldehyde; 3-Phenyl-3-vinylpropionaldehyde;
05.104	3389	10383	116-26-7	2,6,6-Триметилциклогекса-1,3-диен-1-карбальдегид	2,6,6-Trimethylcyclohexa-1,3-diene-1-carbaldehyde	Safranal; Dehydro-beta-Cyclocitral; 1,1,3-Trimethyl-2-formylcyclohexa-2,4-diene;
05.105	3392	10324	25409-089	2-Бутилбут-2-еналь	2-Butylbut-2-enal	2-Ethylidinehexanal; 2-Ethylidene hexanal;
05.106	3395	10379	564-94-3	Миртеналь	Myrtenal	Pin-2-en-10-al; Benihinal; 2-Formyl-6,6-dimethyl-bicyclo[3.1.1]hept-2-ene
05.107	3406	10361	35158-259	2-Изопропил-5-метилгекс-2-еналь	2-Isopropyl-5-methylhex-2-enal	2-Isopropyl-5-methyl-2-hexenal;
05.108	3422	10385	13162-464	Ундека-2,4-диеналь	Undeca-2,4-dienal	
05.109	3423	11827	2463-77-6	2-Ундеценаль	2-Undecenal	2-Undecen-1-al;
05.110	3427		15764-166	2,4-Диметилбензальдегид	2,4-Dimethylbenzaldehyde	2,4-Xylylaldehyde; 1-Formyl-2,4-dimethylbenzene;
05.111	3466	10371	56767-181	Окта-2(транс),6(транс)-диеналь	Octa-2(trans),6(trans)-dienal	
05.112	3474	10338	472-66-2	2,6,6-Триметилциклогекс-1-ен-1-ацетальдегид	2,6,6-Trimethylcyclohex-1-en-1-acetaldehyde	beta-Homocyclocitral;
05.113	3496	10337	4634-89-3	Гекс-4-еналь	Hex-4-enal	
05.114	3510	10364	5362-56-1	4-Метилпент-2-еналь	4-Methylpent-2-enal	
05.115	3519	10377	24401-363	2-Фенилпент-4-еналь	2-Phenylpent-4-enal	
05.116	3524	10384	5435-64-3	3,5,5-Триметилгексаналь	3,5,5-Trimethylhexanal	Isononylaldehyde; tert-Butylisopentanal;
05.117	3557	11788	2111-75-3	p-Мента-1,8-диен-	p-Mentha-1,8-dien-7-al	Perilla aldehyde; 4-Isopropenyl-1-



				7-аль		cyclohexene-1-carboxaldehyde; Perillaldehyde;
05.118	3567	11919	1963-36-6	4-Метоксикоричный альдегид	4-Methoxycinnamaldehyde	3-(4-Methoxyphenyl)prop-2-enal
05.119	3592	10325	4501-58-0	2,2,3-Триметилциклопент-3-ен-1-ил ацетальдегид	2,2,3-Trimethylcyclopent-3-en-1-yl acetaldehyde	alpha-Campholenic aldehyde; (2,3,3-Trimethylcyclopent-3-en-1-yl-2)acetaldehyde;
05.120	3637		21662-135	Додека-2,6-диеналь	Dodeca-2,6-dienal	
05.121	3639	2133	432-25-7	2,6,6-Триметил-1-циклогексен-1-карбоксальдегид	2,6,6-Trimethyl-1-cyclohexen-1-carboxaldehyde	1-Cyclohexene-1-carboxaldehyde, 2,6,6-trimethyl-
05.122	3640	10352	1504-75-2	п-Метилкоричный альдегид	p-Methylcinnamaldehyde	3-p-Tolylpropenal; 3-p-Methylphenyl propenal; 3-(4-Methylphenyl)prop-2-enal
05.123	3645		55253-286	5-Изопентил-2-метилциклопентанкарбоксальдегид	5-Isopropenyl-2-methylcyclopentane carboxaldehyde	Photocitral A; Cis-2-Methyl-cis-5-isopropenylcyclopentane-1-carboxaldehyde; 5-(1-Methylene-ethyl)-2-methylcyclopentanecarboxaldehyde
05.124	3646	10354	107-86-8	3-Метилкротоновый альдегид	3-Methylcrotonaldehyde	3-Methyl but-2-enal; Prenal; Senecialdehyde; 3-Methylbut-2(trans)-enal
05.125	3670	11758	21662-168	Додека-2,4-диеналь	Dodeca-2,4-dienal	E,E-2,4-Dodecadienal;
05.126	3711	10363	49576-570	2-Метилокт-2-еналь	2-Methyloct-2-enal	
05.127	3721	11805	30361-285	Окта-2(транс),4(транс)-диеналь	Octa-2(trans),4(trans)-dienal	E,E-2,4-Octadienal;
05.128	3749		41547-222	Окт-5(цис)-еналь	Oct-5(cis)-enal	(Z)-5-Octenal;
05.129		10350	135-02-4	2-Метоксибензальдегид	2-Methoxybenzaldehyde	o-methoxybenzaldehyde; o-Anisaldehyde;
05.130	3141	10380	17909-772	альфа-Синенсаль	alpha-Sinensal	2,6-Dimethyl-10-methylene-2,6,11-dodecatrienal; 2,6-Dimethyl-10-methylene dodeca-2,6,11-trienal
05.134	2748	587	41496-439	2-Метил-3-толилпропионовый альдегид (смесь о, м, п-)	2-Methyl-3-tolylpropionaldehyde (mixed o,m,p-)	2-Methyl-3-tolyl propanal; 2-Methyl-3-(2,3 or 4-methylphenyl)propanal
05.137	3264	2297	21662-099	Дец-4(цис)-еналь	Dec-4(cis)-enal	
05.139	3912		39770-053	Дец-9-еналь	Dec-9-enal	
05.140	3135	2120	25152-845	Дека-2(транс),4(транс)-диеналь	Deca-2(trans),4(trans)-dienal	2,4-Decadienal; Deca-2,4-dienal; Heptenyl acrolein;
05.142		10328	139-85-5	3,4-Дигидроксибензальдегид	3,4-Dihydroxybenzaldehyde	

05.144	2402	124	20407-845	Додец-2(транс)-еналь	Dodec-2(trans)-enal	
05.147		10331	123-05-7	2-Этилгексаналь	2-Ethylhexanal	2-Ethyl hexaldehyde; Butyl ethyl acetaldehyde; Alpha-Ethylcaproaldehyde;
05.148	4019		19317-114	3,7,11-Триметил-2,6,10-додекатриеналь	3,7,11-Trimethyl-2,6,10-dodecatrienal	3,7,11-Trimethyl dodecatrien-2,6,10-al-1; Farnesal; Farnesone
05.150	3165	730	18829-555	Гепт-2(транс)-еналь	Hept-2(trans)-enal	(E)-2-hepten-1-al; 2-Heptenal; beta-Butyl acrolein; trans-hept-2-en-1-al;
05.152		10336	629-80-1	Гексадеканаль	Hexadecanal	
05.153		10340	134-96-3	4-Гидрокси-3,5-диметоксибензальдегид	4-Hydroxy-3,5-dimethoxybenzaldehyde	
05.154		10341	4206-58-0	4-Гидрокси-3,5-диметоксикоричный альдегид	4-Hydroxy-3,5-dimethoxycinnamaldehyde	Sinapaldehyde; 3-(4-Hydroxy-3,5-dimethoxyphenyl)prop-2-enal
05.155		10342	458-36-6	4-Гидрокси-3-метоксикоричный альдегид	4-Hydroxy-3-methoxycinnamaldehyde	3-(4-Hydroxy-3-methoxyphenyl)prop-2-enal
05.158		10351	591-31-1	3-Метоксибензальдегид	3-Methoxybenzaldehyde	
05.166		10369	1119-16-0	4-Метилпентаналь	4-Methylpentanal	4-Methylvaleraldehyde;
05.169	4005		75853-495	12-Метилтридеканаль	12-Methyltridecanal	
05.170	2303	109	106-26-3	Нераль	Neral	3,7-Dimethyl-2(cis),6-octadienal
05.171	3213	733	2463-53-8	Нон-2-еналь	Non-2-enal	beta-Hexylacrolein; alpha-Nonenyl aldehyde; Nonylenic aldehyde;
05.172	3766		17587-336	Нона-2(транс),6(транс)-диеналь	Nona-2(trans),6(trans)-dienal	
05.173	4187		57018-538	Нона-2,4,6-триеналь	Nona-2,4,6-trienal	
05.174	4262		2100-17-6	4-Пентеналь	4-Pentenal	4-Pentenal
05.178		10381	60066-888	бета-Синенсаль	beta-Sinensal	2,6-Dimethyl-10-methylene dodeca-2,6,11-trienal
05.179	4209		51534-362	(E)Тетрадец-2еналь	(E)-Tetradec-2-enal	
05.182	3639	10326	432-24-6	2,6,6-Триметилциклогекс-2-ен-1-карбоксальдегид	2,6,6-Trimethylcyclohex-2-ene-1-carboxaldehyde	beta-Cyclocitral;
05.184	3423	11827	53448-070	Ундец-2(транс)-еналь	Undec-2(trans)-enal	
05.186	3721	11805	5577-44-6	2,4-Октадиеналь	2,4-Octadienal	
05.188	2303	109	141-27-5	транс-3;7-Диметилдекта-2,6-диеналь	trans-3;7-Dimethylocta-2,6-dienal	Geranial;

05.189	2560	748	505-57-7	2-Гексеналь	2-Hexenal	
05.190	3215	663	2548-87-0	транс-2-Октеналь	trans-2-Octenal	
05.191	2366	2009	3913-81-3	транс-2-Деценаль	trans-2-Decenal	
05.192	3923		4440-65-7	3-Гексеналь	3-Hexenal	
05.194	3212	732	5910-87-2	транс-2, транс-4-Нонадиеналь	trans-2, trans-4-Nonadienal	
05.195	3082	2011	7069-41-2	транс-2-Тридеценаль	trans-2-Tridecenal	
05.196	3422	10385	30361-296	транс-2, транс-4-Ундекадиеналь	trans-2, trans-4-Undecadienal	
05.203	4059		5090-41-5	9-Октадиеналь	9-Octadecenal	Olealdehyde; Elialdehyde; Octadecenyl aldehyde; Oleic Aldehyde
05.208	4066		16905469-7	(Z)-8-Тетрадеценаль	(Z)-8-Tetradecenal	(Z)-Tetradec-8-enal; 8-Tetradecenal, (Z)-
06.001	2002	35	105-57-7	1,1-Диэтоксиэтан	1,1-Diethoxyethane	Diethyl acetal; Acetaldehyde diethyl acetal; Ethylidene diethyl ether; 1,1-Diethoxyethane.;
06.002	2129	36	1319-88-6	5-Гидрокси-2-фенил-1,3-диоксан	5-Hydroxy-2phenyl-1,3-dioxane	Benzaldehyde glyceryl acetal; 5-Hydroxy-2-phenyl-1,3-dioxan; 2-Phenyl-m-dioxan-5-ol; 4-Hydroxy methyl-2-phenyl-1,3-dioxolan; Benzalglycerin;
06.003	2128	37	1125-88-8	альфа, альфа-Диметокситолуол	alpha, alpha-Dimethoxytoluene	Benzaldehyde dimethyl acetal; 1,1-Dimethoxy phenyl methane;
06.004	2304	38	7492-66-2	Диэтилацеталь цитраля	Citral diethyl acetal	3,7-Dimethyl-2,6-octadienal diethyl acetal; 1,1-Diethoxy-3,7-dimethyl-2,6-octadiene; 1,1-Diethoxy-3,7-dimethylocta-2,6-diene
06.005	2305	39	7549-37-3	Диметилацеталь цитраля	Citral dimethyl acetal	3,7-Dimethyl-2,6-octadienal dimethyl acetal; 1,1-Dimethoxy-3,7-dimethyl-2,6-octadiene; 1,1-Dimethoxy-3,7-dimethylocta-2,6-diene
06.006	2876	40	101-48-4	1,1-Диметокси-2-фенилэтан	1,1-Dimethoxy-2-phenylethane	alpha-Tolyl aldehyde dimethyl acetal; Phenylacetaldehyde dimethyl acetal;
06.007	2877	41	29895-736	Глицерил ацеталь фенилацетальдегида	Phenylacetaldehyde glyceryl acetal	5-Hydroxy-2-benzyl-1,3-dioxan; 5-Hydroxymethyl-2-benzyl-1,3-dioxolane; 2-Benzyl-4-hydroxy-1,3-dioxane and 2-Benzyl-4-hydroxymethyl-1,3-dioxolane (mixture)
06.008	2798	42	10022-283	1,1-Диметоксиоктан	1,1-Dimethoxyoctane	Octanal dimethyl acetal; C-8-dimethylacetal; Caprylaldehyde dimethyl acetal; Octaldehyde dimethyl acetal; Resedyl acetal;
06.009	2363	43	7779-41-1	10,10-Диметоксидекан	10,10-Dimethoxydecane	Decanal dimethyl acetal; Decylaldehyde DMA; Aldehyde C-10 dimethylacetal; 1,1-Dimethoxydecane; Decylaldehyde dimethyl acetal;
06.010	2584	44	7779-94-4	1,1-Диэтокси-3,7-диметилоктан-7-ол	1,1-Diethoxy-3,7-dimethyloctan-7-ol	Hydroxycitronellal diethyl acetal; 1,1-Diethoxy-3,7-dimethyl-7-octanol; 8,8-Diethoxy-2,6-dimethyl-2-octanol; 7-Hydroxy-1,1-diethoxy-3,7-dimethyl octane;
06.011	2585	45	141-92-4	1,1-Диметокси-3,7-диметилоктан-7-ол	1,1-Dimethoxy-3,7-dimethyloctan-7-ol	Hydroxycitronellal dimethyl acetal; 8,8-Dimethoxy-2,6-dimethyl-2-octanol; 1,1-

						Dimethoxy-3,7-dimethyl-7-octanol;
06.012	3067	46	1333-09-1	Глицерил ацеталь толуацетальдегида	Tolualdehyde glyceryl acetal	2-(o-,m-,p-Cresyl)-5-hydroxydioxan; 2-(methylphenyl)-1,3-dioxan-5-ol; 2-5-hydroxymethyldioxolane; 2-(2,3 and 4-Methylphenyl)-5-hydroxy-1,3-dioxane and 2-(2,3 and 4-Methylphenyl)-5-hydroxymethyl-1,3-dioxolane (mixture)
06.013	2062	47	91-87-2	Диметилацеталь альфа-пентилкоричного альдегида	alpha-Pentylcinnamaldehyde dimethyl acetal	alpha-n-Amyl-beta-phenylacroleindimethylacetal; 1,1-Dimethoxy-2-amyl-3-phenyl-2-propene; 1,1-Dimethoxy-2-pentyl-3-phenylprop-2-ene
06.014	2287	48	5660-60-6	Этиленгликоль ацеталь коричневого альдегида	Cinnamaldehyde ethylene glycol acetal	2-Styryl-m-dioxolane; 2-Styryl-1,3-dioxolane; Cinnamic aldehyde ethylene glycol acetal; 2-(2-Phenylethylene)-1,3-dioxolane
06.015	3426	510	534-15-6	1,1-Диметоксиэтан	1,1-Dimethoxyethane	Acetaldehyde dimethyl acetal; Dimethylacetal; Ethylidene dimethyl ether;
06.016	2004	511	7493-57-4	1-Фенилэтокси-1-пропоксиэтан	1-Phenylethoxy-1-propoxy ethane	Acetaldehyde phenethyl propyl acetal; [2-(1-Propoxyethoxy)ethyl]benzene; 1-Phenethoxy-1-propoxyethane; Propyl phenethyl acetal; Benzene, 2-(1-propoxyethoxy)ethyl; Acetal R; Pepital;
06.017		517	774-48-1	(Диэтоксиметил)бензол	(Diethoxymethyl)benzene	Benzaldehyde diethyl acetal; 1,1-Diethoxyphenyl methane; Phenyl diethoxy methane; 1,1-Diethoxytoluene;
06.019	2148	523	7492-39-9	1-Бензилокси-1-(2-метоксиэтокси)этан	1-Benzyloxy-1-(2-methoxyethoxy)ethane	Acetaldehyde benzyl methoxyethyl acetal; Acetaldehyde benzyl beta-methoxyethyl acetal; 1-Benzoyl-1-(2-methoxyethoxy)ethane;
06.020		531	34764-028	1,1-Диэтоксидекан	1,1-Diethoxydecane	Decanal diethyl acetal; Decan-1-al diethyl acetal; Decylic aldehyde diethylacetal;
06.021		553	688-82-4	1,1-Диэтоксигептан	1,1-Diethoxyheptane	Heptanal diethyl acetal; Oenanthal diethyl acetal;
06.023		557	3658-93-3	1,1-Диэтоксигексан	1,1-Diethoxyhexane	Hexanal diethyl acetal; Hexyl aldehyde diethyl acetal;
06.024	3384	595	68345-222	1,1-Ди-изобутоксид-2-фенилэтан	1,1-Di-isobutoxy-2-phenylethane	Phenylacetaldehyde di-isobutyl acetal; 1,1-Di(2-methylpropoxy)-2-phenylethane
06.025	3378	660	67674-366	1,1-Диэтоксинаона-2,6-диен	1,1-Diethoxynona-2,6-diene	Nonadienyl diethyl acetal;
06.027	2875	669	5468-06-4	4,5-Диметил-2-бензил-1,3-диоксолан	4,5-Dimethyl-2-benzyl-1,3-dioxolan	Phenylacetaldehyde 2,3-butylene glycol acetal;
06.028	2541	2015	10032-050	1,1-Диметоксигептан	1,1-Dimethoxyheptane	Heptanal dimethyl acetal; Aldehyde C-7 dimethyl acetal; Heptaldehyde dimethylacetal; Enanthal dimethyl acetal;
06.029	2542	2016	72854-423	Глицерилацеталь гептаноля (смесь 1,2 и 1,3 ацеталей)	Heptanal glyceryl acetal (mixed 1,2 and 1,3 acetals)	2-Hexyl-4-hydroxymethyl-1,3-dioxolan + 2-Hexyl-5-hydroxy-1,3-dioxane; 2-Hexyl-4-hydroxy-1,3-dioxane;
06.030	2888	2017	90-87-9	1,1-Диметокси-2-	1,1-Dimethoxy-2-	Phenylpropanal dimethyl acetal; Hydratropic

				фенилпропан	phenylpropane	aldehyde dimethyl acetal; 2-Phenylpropionaldehyde dimethyl acetal;
06.031	4047	2135	54306-002	1,1-Диэтоксигекс-2-ен	1,1-Diethoxyhex-2-ene	2-Hexenal diethyl acetal;
06.032	2130	2226	2568-25-4	4-Метил-2фенил-1,3-диоксолан	4-Methyl-2-phenyl-1,3-dioxolane	Benzaldehyde propylene glycol acetal; 4-Methyl-2-phenyl-m-dioxolane; 4-Methyl-2-phenyl-1,3-dioxolan; Benzaldehyde propylene glycol cyclic acetal;
06.033		2341	871-22-7	1,1-Дибутоксиэтан	1,1-Dibutoxyethane	Acetaldehyde dibutyl acetal;
06.034		2342	105-82-8	1,1-Дипропоксиэтан	1,1-Dipropoxyethane	n-Propyl acetal; Dipropyl acetal; Acetaldehyde dipropyl acetal;
06.035		2343	10444-505	Пропиленгликоль ацеталь цитраля	Citral propylene glycol acetal	2-(2,6-Dimethylhepta-1,5-dienyl)-4methyl-1,3-dioxalane
06.036	3125	10007	64577-919	1-Бутокси-1-(2-фенилэтокси)этан	1-Butoxy-1-(2-phenylethoxy)ethane	Acetaldehyde butyl phenethyl acetal; 2-Butoxy-2-phenylethoxy-ethane;
06.037	3349	10011	18492-654	1,1-Диэтоксигепт-4-ен (цис и транс)	1,1-Diethoxyhept-4-ene (cis and trans)	4-Heptenal diethyl acetal;
06.038	3381	10029	5436-21-5	4,4-Диметоксибутан -2-он	4,4-Dimethoxybutan-2-one	Acetylacetaldehyde dimethyl acetal; 3-Oxobutanal dimethyl acetal; 3-Ketobutyraldehyde, dimethyl acetal;
06.039	3534		67715-791	1,2-Ди((1'-этокси)-этокси)пропан	1,2-Di((1'-ethoxy)-ethoxy)propane	4,6,9-Trimethyl-3,5,8,10-tetraoxadecane; 3,5,8,10-tetraoxadecane, 4,6,9-trimethyl-;
06.040	3593	11930	67715-826	1,2,3-Трис([1'-этокси]-этокси)пропан	1,2,3-Tris([1'ethoxy]-ethoxy)propane	3,5,9,11-Tetraoxatridecane,7-(1-ethoxyethoxy)-4,10-dimethyl-;
06.041		10055		1-Изобутокси-1-этокси-2-метилпропан	1-Isobutoxy-1-ethoxy-2-methylpropane	Isobutanal ethyl isobutyl acetal; 2-Methylpropanal ethyl isobutyl acetal; 1-Ethoxy-2-methyl-1-(2-methylpropoxy)propane
06.042		10057		1-Изобутокси-1-этокси-3-метилбутан	1-Isobutoxy-1-ethoxy-3-methylbutane	Isovaleraldehyde ethyl isobutyl acetal; 3-Methylbutanal ethyl isobutyl acetal; 1-Ethoxy-3-methyl-1-(2-methylpropoxy)butane
06.043		10038		1-Изоамилокси-1-этоксипропан	1-Isoamyloxy-1-ethoxypropane	Propanal ethyl 3-methylbutyl acetal; 1-Ethoxy-1-(2-methylpropoxy)ethane
06.044		10058		1-Изобутокси-1-этоксипропан	1-Isobutoxy-1-ethoxypropane	Propanal ethyl isobutyl acetal; 1-Ethoxy-1-(2-methylpropoxy)propane
06.045		10061		1-Изобутокси-1-изопентилокси-2-метилпропан	1-Isobutoxy-1-isopentyloxy-2-methylpropane	Isobutanal isobutyl isoamyl acetal; 2-Methylpropanal isobutyl 3-methylbutyl acetal; 2-Methyl-1-(3-methylbutoxy)-1-(2-methylpropoxy)propane
06.046		10060		1-Изобутокси-1-изопентилокси-3-метилбутан	1-Isobutoxy-1-isopentyloxy-3-methylbutane	Isovaleraldehyde isoamyl isobutyl acetal; 3-Methylbutanal isobutyl 3-methylbutyl acetal; 3-Methyl-1-(3-methylbutoxy)-1-(2-methylpropoxy)butane
06.047		10065		1-Изопентилокси-	1-Isopentyloxy-	Acetaldehyde 3-methylbutyl propyl acetal; 1-

				1-пропоксиэтан	propoxyethane	(3-Methylbutoxy)-1-propoxyethane
06.048		10066		1-Изопентилокси-1-пропоксипропан	1-Isopentyloxy-1-propoxypropane	Propanal 3-methylbutyl propyl acetal; 1-(3-Methylbutoxy)-1-propoxypropane
06.050		10003	57006-878	1-Бутокси-1-этоксизэтан	1-Butoxy-1-ethoxyethane	Acetaldehyde butyl ethyl acetal;
06.052		10025	13262-243	1,1-Ди-изобутоксизэтан	1,1-Di-isobutoxy-2-methylpropane	Isobutanal di-isobutyl acetal; 2-Methylpropanal diisobutyl acetal; 1,1-Di(2-methylpropoxy)-2-methylpropane
06.053		10023	5669-09-0	1,1-Ди-изобутоксизэтан	1,1-Di-isobutoxyethane	Acetaldehyde di-isobutyl acetal; 1,1-Di(2-methylpropoxy)ethane
06.054		10026	13262-276	1,1-Ди-изобутоксипентан	1,1-Di-isobutoxypentane	Valeraldehyde di-isobutyl acetal; Pentanal diisobutyl acetal; 1,1-Di(2-methylpropoxy)pentane
06.055		10028	13002-090	1,1-Ди-изопентилоксизэтан	1,1-Di-isopentyloxyethane	Acetaldehyde di-isoamyl acetal; Acetaldehyde di(3-methylbutyl) acetal; 1,1-Di(3-methylbutoxy)ethane
06.057		10013	3658-94-4	1,1-Диэтоксизэтан	1,1-Diethoxy-2-methylbutane	2-Methylbutanal diethyl acetal;
06.058		10015	1741-41-9	1,1-Диэтоксизэтан	1,1-Diethoxy-2-methylpropane	Isobutanal diethyl acetal; 2-Methylpropanal diethyl acetal;
06.059		10014	3842-03-3	1,1-Диэтоксизэтан	1,1-Diethoxy-3-methylbutane	Isovaleraldehyde diethyl acetal; 3-Methylbutanal diethyl acetal;
06.061		10009	3658-95-5	1,1-Диэтоксизэтан	1,1-Diethoxybutane	Butanal diethyl acetal;
06.064		10012	462-95-3	Диэтоксиметан	Diethoxymethane	Formaldehyde diethyl acetal;
06.065		10016	54815-133	1,1-Диэтоксинонан	1,1-Diethoxynonane	Nonanal diethyl acetal;
06.067		10017	3658-79-5	1,1-Диэтоксипентан	1,1-Diethoxypentane	Valeraldehyde diethyl acetal; Pentanal diethyl acetal;
06.069		10018	4744-08-5	1,1-Диэтоксипропан	1,1-Diethoxypropane	Propanal diethyl acetal;
06.071		10022	5405-58-3	1,1-Дигексилоксизэтан	1,1-Dihexyloxyethane	Acetaldehyde dihexyl acetal;
06.072	4098		18318-837	1,1-Диметокситранс-2-гексен	1,1-Dimethoxytrans-2-hexene	1,1-Dimethoxy-E-2-hexene; 2-Hexene, 1,1-dimethoxy-, (2E)-; 2-Hexenal, dimethyl acetal, (E)-; 2-Hexene, 1,1-dimethoxy-, (E)-; (E)-2-Hexenal dimethyl acetal; trans-2-Hexenal dimethyl acetal
06.074		10031	109-87-5	Диметоксиметан	Dimethoxymethane	Formaldehyde dimethyl acetal; Methylal;
06.077	4099		3390-12-3	2,4-Диметил-1,3-диоксолан	2,4-Dimethyl-1,3-dioxolane	1,3-Dioxolane, 2,4-dimethyl-; Acetaldehyde cyclic propylene glycol acetal; Propylene acetal
06.079		10040	13602-090	1-Этоксизэтан	1-Ethoxy-1-(2-methylbutoxy)ethane	Acetaldehyde ethyl 2-methylbutyl acetal;
06.080		10049	2556-10-7	1-Этоксизэтан	1-Ethoxy-1-(2phenylethoxy)ethane	Acetaldehyde ethyl 2-phenylethyl acetal;
06.081	3775	10034	28069-741	1-Этоксизэтан	1-Ethoxy-1-(3-	Ethyl cis-3-hexenyl acetal; Acetaldehyde

				гексенил(окси)этан	hexenyloxy)ethane	ethyl 3-hexenyl acetal;
06.082		11948	54484-730	1-Этоксн-1-гекснлокснэтан	1-Ethoxy-1-hexyloxyethane	Acetaldehyde ethyl hexyl acetal; 1-(1-Ethoxyethoxy) hexane;
06.083		10037	13442-905	1-Этоксн-1-нзопентнлокснэ тан	1-Ethoxy-1-isopentyloxyethane	Acetaldehyde ethyl 3-methylbutyl acetal; 1-Ethoxy-1-(3-methylbutoxy)ethane
06.084		10039	10471-144	1-Этоксн-1-метокснэтан	1-Ethoxy-1-methoxyethane	Acetaldehyde ethyl methyl acetal;
06.085		10046	59184-439	1-Этоксн-1-пентнлокснэтан	1-Ethoxy-1-pentyloxyethane	Acetaldehyde ethyl amyl acetal; Acetaldehyde ethyl pentyl acetal;
06.086		10050	20680-108	1-Этоксн-1-пропокснэтан	1-Ethoxy-1-propoxyethane	Acetaldehyde ethyl propyl acetal;
06.089	4048		6454-22-4	2-Гекснл-4,5-днметнл-1,3-днлоксолан	2-Hexyl-4,5-dimethyl-1,3-dioxolane	1,3-Dioxolane,2-hexyl-4,5-dimethyl-; Heptanal 2,3-butandiol acetal
06.091		10054	6986-51-2	1-нзобутоксн-1-этокснэтан	1-Isobutoxy-1-ethoxyethane	Acetaldehyde ethyl isobutyl acetal
06.092		10059	75048-156	1-нзобутоксн-1-нзопентнлокснэтан	1-Isobutoxy-1-isopentyloxyethane	Acetaldehyde isobutyl isoamyl acetal; Acetaldehyde isobutyl 3-methylbutyl acetal; 1-(3-Methylbutoxy)-1-(2-methylpropoxy)ethane
06.094	3630		1599-49-1	4-Метнл-2-пентнл-1,3-днлоксолан	4-Methyl-2-pentyl-1,3-dioxolane	
06.096		10903	122-51-0	Трнэтокснметан	Triethoxymethane	Triethyl orthoformate; Ethyl orthoformate;
06.097		10075	7789-92-6	1,1,3-Трнэтокснпропан	1,1,3-Triethoxypropane	3-Ethoxypropanal diethyl acetal;
06.098	3441	11423	1193-11-9	2,2,4-Трнметнл-1,3-днлоксолан	2,2,4-Trimethyl-1,3-dioxolane	
06.100		10032	13002-089	Ацетальдегнда днпентнлацеталь	Acetaldehyde dipentyl acetal	
06.102		2016	1708-36-7	2-Гекснл-5-гндроксн-1,3-днлоксан	2-Hexyl-5-hydroxy-1,3-dioxane	
06.104	3905		68527-742	Пропнленгнлокль ацеталь ваннлна	Vanillin propylene glycol acetal	4-methyl-2-(4-hydroxy-3-methoxyphenyl)-1,3-dioxolane;
06.105		10070	13285-513	3-Метнл-1,1-дн-нзопентнлокснбутан	3-Methyl-1,1-di-isopentyloxybutane	Isovaleraldehyde di-isoamyl acetal; 3-Methylbutanal di(3-methylbutyl) acetal; 3-Methyl-1,1-di(3-methylbutoxy)butane
06.106		10071	13112-635	2-Метнл-1,1-дн-нзопентнлокснпропан	2-Methyl-1,1-di-isopentyloxypropane	2-Methyl-1,1-di(3-methylbutoxy)propane
06.107		10068	13548-840	1-(2-Метнлбутоксн)-1-нзопентнлокснэтан	1-(2-Methylbutoxy)-1-isopentyloxyethane	Methylbutyl acetal; 1-(2-Methylbutoxy)-1-(3-methylbutoxy)ethane
06.120	3808		67785-700	1,2-Гнлцерокеталь DL-Ментона	DL-Menthone-1,2-glycerol ketal	

06.123		10004		1-Бутокси-1-изопентилоксиэтан	1-Butoxy-1-isopentyloxyethane	Acetaldehyde butyl isoamyl acetal; 1-Butoxy-1-(3-methylbutoxy)ethane
06.124		10024		1,1-Ди-изобутокси-3-метилбутан	1,1-Di-isobutoxy-3-methylbutane	Isovaleraldehyde di-isobutyl acetal; 3-Methylbutanal diisobutyl acetal; 1,1-Di(2-methylpropoxy)-3-methylbutane
06.125		10027		1,1-Ди-изобутоксипропан	1,1-Di-isobutoxypropane	Propanal di-isobutyl acetal; 1,1-Di(2-methylpropoxy)propane
06.127		10036		1-Этокси-1-изопентилоксипропан	1-Ethoxy-1-isopentyloxypropane	Butanal ethyl isoamyl acetal; Butanal ethyl 3-methylbutyl acetal; 1-Ethoxy-1-(3-methylbutoxy)propane
06.128		10045		1-Этокси-1-пентилоксибутан	1-Ethoxy-1-pentyloxybutane	Butanal ethyl amyl acetal;
06.129		10043		1-Этокси-2метил-1-изопентилоксипропан	1-Ethoxy-2-methyl-1-isopentyloxypropane	Isobutanal ethyl isoamyl acetal; 2-Methylpropanal ethyl 3-methylbutyl acetal; 1-Ethoxy-2-methyl-1-(3-methylbutoxy)butane
06.130		10044		1-Этокси-2-метил-1-пропоксипропан	1-Ethoxy-2-methyl-1-propoxypropane	Isobutanal ethyl propyl acetal; 2-Methylpropanal ethyl propyl acetal;
06.131		10042		1-Этокси-3-метил-1-изопентилоксибутан	1-Ethoxy-3-methyl-1-isopentyloxybutane	Isovaleraldehyde ethyl isoamyl acetal; 3-Methylbutanal ethyl 3-methylbutyl acetal; 1-Ethoxy-3-methyl-1-(3-methylbutoxy)butane
06.132	4023		63253-247	Бутан-2,3-диолацеталь ванилина (смесь стерео изомеров)	Vanillin butan-2,3-diol acetal (mixture of stereo isomers)	Vanillin erythro and threo-butan-2,3-diol acetal;
07.001	2969	105	78-98-8	2-Оксoproпаналь	2-Oxopropanal	Pyruvaldehyde; 2-Ketopropionaldehyde; Acetylformaldehyde; Methyl glyoxal; Pyruvic aldehyde; Propan-2-on-1-al;
07.002	2544	136	110-43-0	Гептан-2-он	Heptan-2-one	Ketone C-7; Methyl amyl ketone; Amyl methyl ketone;
07.003	2545	137	106-35-4	Гептан-3-он	Heptan-3-one	Ethyl butyl ketone; Butyl ethyl ketone;
07.004	2009	138	98-86-2	Ацетофенон	Acetophenone	Methyl phenyl ketone; Acetylbenzene; Acetylbenzol; Benzoylmethide; Phenyl methyl ketone;
07.005	3124	139	122-48-5	Ванилил ацетон	Vanillyl acetone	Zingerone; 3-Methoxy-4-hydroxybenzylacetone; 2-Ethyl methyl ketone; 3-Methoxy-4-methoxybenzylacetone; Vanillylacetone; 4-(4-Hydroxy-3-methoxyphenyl)butan-2-one
07.007	2594	141	127-41-3	альфа-Ионон	alpha-Ionone	4-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
07.008	2595	142	14901-076	бета-Ионон	beta-Ionone	β-Irisone; 4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one; β-Cyclocitrylideneacetone; 4-(2,6,6-Trimethylcyclohex-1-enyl)but-3-en-2-one
07.009	2711	143	7779-30-8	Метил-альфа-ионон	Methyl-alpha-ionone	alpha-Cetone; 5-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-4-penten-3-one; Raldeine; alpha,Cyclocitrylideneethyl ethyl ketone; 1-



						(2,6,6-Trimethylcyclohex-2-enyl)pent-1-en-3-one
07.010	2712	144	127-43-5	Метил-бета-ионон	Methyl-beta-ionone	5-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-4-penten-3-one; Raldeine; $\beta$ -Cyclocitrylidenebutanone, $\beta$ -Methylionone; $\beta$ -Iraldeine; 1-(2,6,6-Trimethylcyclohex-1-enyl)pent-1-en-3-one
07.011	2597	145	79-69-6	4-(2,5,6,6-Тетраметил-2-циклогексенил)-3-бутен-2-он	4-(2,5,6,6-Tetramethyl-2-cyclohexenyl)-3-buten-2-one	alpha-Irone; 6-Methylionone; 4(2,5,6,6-Tetramethyl-2-cyclohexen-1-yl)-3-buten-2-one;
07.012	2249	146	99-49-0	Карвон	Carvone	Carvol; 1-Methyl-4-isopropenyl-6-cyclohexen-2-one; p-Mentha-1,8-dien-2-one
07.013	2723	147	93-08-3	Метил-2-нафтил кетон	Methyl 2-naphthyl ketone	2-Acetonaphthone; 2-acetylnaphthalene; oranger crystals; beta-methyl naphthyl ketone; beta-Acetonaphthone;
07.014	2656	148	118-71-8	Мальтол	Maltol	Veltol (Pfizer); Corps praline; 4H-Pyran-4-one, 3-hydroxy-2-methyl; 3-Hydroxy-2-methyl-(1,4-pyran); 2-Methyl pyromeconic acid; 3-Hydroxy-2-methyl-4-pyrone
07.015	2707	149	110-93-0	6-Метилгепт-5-ен-2-он	6-Methylhept-5-en-2-one	Methyl heptenone; 2-Methyl-2-hepten-6-one; 2-Methylheptenone; Methyl hexenyl ketone;
07.016	3093	150	112-12-9	Ундекан-2-он	Undecan-2-one	Methyl nonyl ketone; 2-hendecanone; Undecanone-2; Methyl nonyl ketone; 2-Hendecanone; 2-Oxoundecane; Nonyl methyl ketone;
07.017	2731	151	108-10-1	4-Метилпентан-2-он	4-Methylpentan-2-one	Methyl isobutyl ketone; Isobutyl methyl ketone; Isopropylacetone; Isohexanone; Hexone;
07.018	2558	152	3848-24-6	Гексан-2,3-дион	Hexan-2,3-dione	Methyl propyl diketone; Acetyl butyryl; Acetyl-n-butyryl;
07.019	2802	153	111-13-7	Октан-2-он	Octan-2-one	Methyl hexyl ketone; n-Hexyl methyl ketone; Hexyl methyl ketone; Octan-2-one;
07.020	2785	154	821-55-6	Нонан-2-он	Nonan-2-one	Methyl heptyl ketone;
07.021	3090	155	7493-59-6	Ундека-2,3-дион	Undeca-2,3-dione	Acetyl nonanyl; Acetyl nonanoyl; Acetyl pelargonyl;
07.022	2677	156	122-00-9	4-Метилацетофенон	4-Methylacetophenone	p-Methylacetophenone; Methyl p-tolyl ketone; 1-Acetyl-4-methylbenzene; 1-methyl-4-acetyl benzene;
07.023	2387	157	89-74-7	2,4-Диметилацетофенон	2,4-Dimethylacetophenone	Acetyl-m-Xylene; methyl 2,4-Dimethylphenyl ketone;
07.024	2881	158	122-57-6	4-Фенилбут-3-ен-2-он	4-Phenylbut-3-en-2-one	Benzylidene acetone; Cinnamyl methyl ketone; Methyl styryl ketone; Acetocinnamone; Benzalacetone;
07.025	2740	159	5349-62-2	4-Метил-1-фенилпентан-2-он	4-Methyl-1-phenylpentan-2-one	Benzyl isobutyl ketone; Isobutyl benzyl ketone;
07.026	3074	160	7774-79-0	4-(п-Толлил)бутан-	4-(p-Tolyl)butan-2-one	4-(4-Methylphenyl)butan-2-one

				2-он		
07.027	2734	161	1901-26-4	3-Метил-4-фенилбут-3-ен-2-он	3-Methyl-4-phenylbut-3-en-2-one	Benzylidene methyl acetone; 1-Methyl-1-benzylideneacetone; 3-Benzylidene-2-butanone; alpha-Methyl-alpha-Benzalacetone;
07.028	2132	162	119-53-9	Бензоин	Benzoin	Benzoyl phenyl carbinol; alpha-Hydroxy-alpha-phenylacetophenone; 2-Hydroxy-1,2-diphenylethane; 2-Hydroxy-2-phenylacetophenone
07.029	2672	163	104-20-1	4-(4-Метоксифенил)бутан-2-он	4-(4-Methoxyphenyl)butan-2-one	Anisyl acetone; p-methoxyphenylbutanone; 2-Butanone, 4-(4-methoxyphenyl)-; Raspberry ketone, methyl ether; methyl oxanone; p-Methoxybenzylacetone;
07.030	2673	164	104-27-8	1-(4-Метоксифенил)пент-1-ен-3-он	1-(4-Methoxyphenyl)pent-1-en-3-one	Ethone; alpha-Methylanisalacetone; Alpha-Methyl anisylidene acetone; p-Methoxystyryl ethyl ketone;
07.031	2701	165	55418-52-5	Пиперонил ацетон	Piperonyl acetone	2-Butanone, 4-(1,3-benzodioxol-5-yl); Dulcinyll; Heliotropyl acetone; 4-(3,4-Methylenedioxyphenyl)butan-2-one
07.032	2134	166	119-61-9	Бензофенон	Benzophenone	Benzoylbenzene; Diphenyl ketone; Diphenylmethanone; Alpha-Oxodiphenylmethane;
07.033	3552	167	11050-62-7	Изожасмон	Isojasmone	2-Hexyl-cyclopent-2-en-1-one and 2-Hexylidene cyclopentanone
07.034	2573	167	17373-89-6	2-Гексилиденциклопентан-1-он	2-Hexylidenecyclopentan-1-one	alpha-Hexylidenecyclopentanone;
07.035	3061	168	17369-60-7	Тетраметил этилциклогексенон (смесь изомеров)	Tetramethyl ethylcyclohexenone (mixture of isomers)	
07.036	2714	169	127-51-5	альфа-Изометил ионон	alpha-Isomethyl ionone	4-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-3-methyl-3-buten-2-one; Methyl-gamma-Ionone; Isomethylionone; Gamma-Methylionone; 4-(2,6,6-Trimethylcyclohex-2-enyl)-3-methylpent-3-en-2-one
07.038	2005	570	100-06-1	4-Метоксиацетофенон	4-Methoxyacetophenone	Acetanisole; p-Acetylanisole; 4-Acetylanisole;
07.039	2804	592	7786-52-9	Октан-3-он-1-ол	Octan-3-on-1-ol	3-Охо-1-octanol; Caproylethanoate; Hexanoylethanoate; Methylol methyl amyl ketone; 1-hydroxyoctan-3-on;
07.040	3469	599	93-55-0	1-Фенилпропан-1-он	1-Phenylpropan-1-one	Propiophenone; Phenyl ethyl ketone; Propionylbenzene;
07.041	4151	650	79-89-0	Бета-Изометилионон	beta-Isomethylionone	Isomethyl beta-ionone; 3-Methyl-4-(2,6,6-trimethylcyclohex-1-enyl)but-3-en-2-one
07.042	2927	651	645-13-6	4-Изопропилацетофенон	4-Isopropylacetophenone	Methyl p-isopropylphenyl ketone; p-Acetylcumene; p-Propylacetophenone;

07.044	3417	666	625-33-2	Пент-3-ен-2-он	Pent-3-en-2-one	
07.045	3473	686	2408-37-9	2,2,6-Триметилциклогексанон	2,2,6-Trimethylcyclohexanone	
07.046	3738	691	1080-12-2	Ванилиден ацетон	Vanillylidene acetone	Methyl-3-methoxy-4-hydroxystyryl ketone; Dihydrozingerone; 4-(4-Hydroxy-3-methoxyphenyl)but-3-en-2-one
07.047	3487	692	4940-11-8	Этилмальтол	Ethyl maltol	Veltol-Plus; 2-Ethylpyromeconic acid; 3-Hydroxy-2-ethyl-4-pyrone; 2-Ethyl-3-ol-4H-pyran-4-one; 2-Ethyl-3-hydroxy-4-pyrone
07.048	3352	718	2497-21-4	4-Гексен-3-он	4-Hexen-3-one	2-Hexen-4-one; Hex-2-en-4-one; Propylene ethyl ketone;
07.049	3760	719	103-13-9	1-(4-Метоксифенил)-4-метилпент-1-ен-3-он	1-(4-Methoxyphenyl)-4-methylpent-1-en-3-one	Methoxystyryl isopropyl ketone; Isopropyl 4-methyloxystyryl ketone;
07.050	3326	737	67-64-1	Ацетон	Acetone	Propan-2-one; Dimethyl ketone; 2-Oxopropane; β-Ketopropane; Pyroacetic ether;
07.051	2008	749	513-86-0	3-Гидроксибутан-2-он	3-Hydroxybutan-2-one	Acetoin; AMC; Acetyl methyl carbinol; 2,3-Butanolone; Dimethylketol; 3-Hydroxy-2-butanone; Gamma-hydroxy-beta-oxobutane;
07.052	2370	752	431-03-8	Диацетил	Diacetyl	Dimethyl diketone; Biacetyl; 2,3-diketobutane; 2,3-Butanedione; Dimethylglyoxal; Butane-2,3-dione
07.053	2170	753	78-93-3	Бутан-2-он	Butan-2-one	Ethyl methyl ketone; Methyl ethyl ketone; Ketone C-4;
07.054	2842	754	107-87-9	Пентан-2-он	Pentan-2-one	Ethyl acetone; Methyl propyl ketone; Propyl methyl ketone; Pentane-2-one;
07.055	2588	755	5471-51-2	4-(п-Гидроксифенил)бутан-2-он	4-(p-Hydroxyphenyl)butan-2-one	p-Hydroxybenzyl acetone; oxyphenalon; Frambinone; 1-p-Hydroxyphenyl-3-butanone; p-Hydrobenzylacetone; p-Hydroxybenzylacetone;
07.056	2700	758	80-71-7	3-Метилциклопентан-1,2-дион	3-Methylcyclopentan-1,2-dione	2-Hydroxy-3-methylcyclopent-2-en-1-one; Methylcyclopentenolone; 3-Methylcyclopentane-1,2-dione; cyclotene; Corylone; 3-Methyl-2-cyclopenten-2-ol-1-one;
07.057	3152	759	21835-018	3-Этилциклопентан-1,2-дион	3-Ethylcyclopentan-1,2-dione	2-Hydroxy-3-ethyl-2-cyclopenten-1-one; Ethyl cyclopentenolone; Ethyl cyclopentalone; 3-Ethyl-2-cyclopenten-2-ol-1-one;
07.058	2546	2034	123-19-3	Гептан-4-он	Heptan-4-one	Dipropyl ketone; Butyrone;
07.059	2667	2035	10458-147	п-Ментан-3-он	p-Menthan-3-one	2-Isopropyl-5-methylcyclohexanone; 4-Isopropyl-1-methylcyclohexan-3-one;
07.060	2841	2039	600-14-6	Пентан-2,3-дион	Pentan-2,3-dione	Acetyl propionyl;
07.061	2033	2040	79-78-7	Аллил альфа-ионон	Allyl alpha-ionone	1-(2,6,6-Trimethyl-2-cyclohexene-1-yl)-1,6-heptadien-3-one; Allyl

						cyclocitrylideneacetone; alpha-AllyliononeS; 1-(2,6,6-Trimethylcyclohex-2-enyl)-1,6- heptadien-3-one
07.062	2803	2042	106-68-3	Октан-3-он	Octan-3-one	Ethyl amyl ketone; Amyl ethyl ketone;
07.063	2730	2043	7493-58-5	4-Метилпентан-2,3- дион	4-Methylpentan-2,3- dione	Acetyl isobutyryl;
07.064	2543	2044	96-04-8	Гептан-2,3-дион	Heptan-2,3-dione	Acetyl pentanoyl; Acetyl valeryl; Valeryl acetyl;
07.065	2587	2045	496-77-5	5-Гидроксиоктан-4- он	5-Hydroxyoctan-4-one	Butyrolin; 5-Octanol-4-one;
07.067	2964	2051	29606-799	Изопулегон	Isopulegone	1-Methyl-4-isopropenylcyclohexan-3-one; 1- Methyl-4-isopropenyl-3-cyclohexanone; 1- Isopropyl-4-methyl-2-cyclohexanone; p- Menth-8-en-3-one
07.069	3059	2053	4433-36-7	Тетрагидро-псевдо- ионон	Tetrahydro-pseudo- ionone	6,10-Dimethyl-9-undecen-2-one; Dihydrogeranylacetone.; 6,10- Dimethylundec-9-en-2-one
07.070	2146	2140	7492-37-7	3-Бензилгептан-4- он	3-Benzylheptan-4-one	
07.071		2141	5455-24-3	Октан-4,5-дион	Octane-4,5-dione	Dibutyryl;
07.072		2143	624-42-0	6-Метилгептан-3- он	6-Methylheptan-3-one	Isoamyl ethyl ketone;
07.075	3268	2234	13494-069	3,4- Диметилциклопент ан-1,2-дион	3,4- Dimethylcyclopentan- 1,2-dione	2-Hydroxy-3,4-dimethyl-2-cyclopenten-1- one;
07.076	3269	2235	13494-070	3,5- Диметилциклопент ан-1,2-дион	3,5- Dimethylcyclopentan- 1,2-dione	
07.077	3168	2255	4437-51-8	Гексан-3,4-дион	Hexan-3,4-dione	Dipropionyl; 3,4-Dioxohexane; Diethyl- alpha,beta-di-ketone;
07.078	3460	2259	491-07-6	d,l-Изоментон	d,l-Isomenthone	Cis-1-Methyl-4-isopropyl-3-cyclohexanone; cis-para-Menthan-3-one; cis-p-Menthan-3- one
07.079	3226	2275	579-07-7	1-Фенилпропан- 1,2-дион	1-Phenylpropan-1,2- dione	Acetyl benzoyl; Methyl phenyl diketone; Methyl phenyl glyoxal; Phenyl methyl diketone;
07.080	3305	2311	3008-43-3	3Метилциклогекс ан-1,2-дион	3- Methylcyclohexan1,2- dione	3-Methyl-1,2-cyclohexanedione; 2-Methyl- 3,4-cyclohexanedione;
07.081	3515	2312	4312-99-6	Окт-1-ен-3-он	Oct-1-en-3-one	Vinyl amyl ketone; Amyl vinyl ketone;
07.082	3603	2313	4643-27-0	Окт-2-ен-4-он	Oct-2-en-4-one	Butyl propenyl ketone; Propenyl butyl ketone;
07.083	3243	2340	23726-923	бета-Дамаскон	beta-Damascone	1-(2,6,6-Trimethylcyclohex-1-enyl)but-2-en- 1-one
07.084		2350	96-22-0	Пентан-3-он	Pentan-3-one	Dimethyl acetone; Diethyl ketone; Dimethylacetone; Propione; Methacetone;

07.086	2397	11839	102-04-5	1,3-Дифенилпропан-2-он	1,3-Diphenylpropan-2-one	Dibenzyl ketone; Alpha,alpha-Diphenylketone; Benzyl ketone;
07.087	2674	11836	122-84-9	4-Метоксифенилацетон	4-Methoxyphenylacetone	Anisyl methyl ketone; 3-(4-Methoxyphenyl)propan-2-one; p-Methoxyphenylacetone; Anisketone; Anisic ketone;
07.088	2713	11852	7784-98-7	Метил-дельта-ионон	Methyl-delta-ionone	5-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-4-penten-3-one; 1-(2,6,6-Trimethylcyclohex-3-enyl)pent-1-en-3-one
07.089	3166	11164	4674-50-4	Нуткатон	Nootkatone	5,6-Dimethyl-8-isopropenylbicyclo[4.4.0]dec-1-en-3-one; 4,4a,5,6,7,8-Hexahydro-6-isopropenyl-4,4a-dimethyl-2(3H)-naphthalene; 4,4a,5,6,7,8-Hexahydro-4,4a-dimethyl-6-(1-methyleneethyl)-2(3H)-naphthalenone
07.090	3173	11102	5077-67-8	1-Гидроксибутан-2-он	1-Hydroxybutan-2-one	2-Охо-1-бутанол; Propionyl cabinol; Ethyl hydroxymethyl ketone; 1-Butanol-2-one;
07.091	3175		79-76-5	гамма-Ионон	gamma-Ionone	4-(2,2-Dimethyl-6-methylene-cyclohexyl)-3-buten-2-one; 4-(2-Methylene-6,6-dimethylcyclohexyl)-3-buten-2-one; 4-(2,2-Dimethyl-6-methylenecyclohexyl)but-3-en-2-one
07.092	3176	11128	499-70-7	п-Ментан-2-он	p-Menthan-2-one	Carvomenthone; Tetrahydromenthone; Tetrahydrocarvone;
07.093	3190	11148	13706-86-0	5-Метилгексан-2,3-дион	5-Methylhexan-2,3-dione	2-Methyl-4,5-hexanedione; Acetyl isovaleryl; Isobutyl methyl diketone; Isobutyl methyl glyoxal;
07.094	3196	11786	488-10-8	3-Метил-2-(пент-2(цис)-енил)циклопент-2-ен-1-он	3-Methyl-2-(pent-2(cis)-enyl)cyclopent-2-en-1-one	cis-Jasmone;
07.095	3261	11044	14765-30-1	2-(втор-Бутил)циклогексанон	2-(sec-Butyl)cyclohexanone	2-But-2-ylcyclohexanone; 2-(1-Methylpropyl)cyclohexanone
07.096	3290	11097	589-38-8	Гексан-3-он	Hexan-3-one	Ethyl propyl ketone;
07.097	3292	11113	59191-78-5	3-(Гидроксиметил)октан-2-он	3-(Hydroxymethyl)octan-2-one	
07.098	3360	11134	1193-18-6	3-Метилциклогекс-2-ен-1-он	3-Methylcyclohex-2-en-1-one	1-Methyl-1-cyclohexenone-3;
07.099	3363	11143	1604-28-0	6-Метилгепта-3,5-диен-2-он	6-Methylhepta-3,5-dien-2-one	2-methyl-hepta-2,4-dien-6-one; Methylheptadienone,;
07.100	3365	11150	3240-09-3	5-Метилгекс-5ен-2-он	5-Methylhex-5-en-2-one	2-Methylallylacetone; 2-Methyl-1-hexen-5-one; 2-Methyl-allyl-acetone;
07.101	3368	11853	141-79-7	4-Метилпент-3-ен-2-он	4-Methylpent-3-en-2-one	Mesityl oxide; Methyl isobutenyl ketone; Isopropylideneacetone;
07.102	3382	11179	1629-58-9	Пент-1-ен-3-он	Pent-1-en-3-one	Ethyl vinyl ketone;
07.103	3388	11194	593-08-8	Тридекан-2-он	Tridecan-2-one	Methyl undecyl ketone; Hendecyl methyl ketone;

07.104	3399	11093	4643-25-8	Гепт-2-ен-4-он	Hept-2-en-4-one	
07.105	3400	11094	1119-44-4	Гепт-3-ен-2-он	Hept-3-en-2-one	Methyl pentenyl ketone; Butylidene acetone; n-Butylideneacetone;
07.106	3409	11149	5166-53-0	5-Метилгекс-3-ен-2-он	5-Methylhex-3-en-2-one	Isobutylidene acetone;
07.107	3416	11170	1669-44-9	Окт-3-ен-2-он	Oct-3-en-2-one	
07.108	3420	11197	23696-85-7	бета-Дамасценон	beta-Damascenone	4-(2,6,6-trimethylcyclohexa-1,3-dienyl)-but-2-en-4-one; 1-(2,6,6-Trimethylcyclohexa-1,3-dienyl)but-2-en-1-one
07.109	3421	11200	1125-21-9	2,6,6-Триметилциклогекс-2-ен-1,4-дион	2,6,6-Trimethylcyclohex-2-en-1,4-dione	3,5,5-Trimethylcyclohex-2-ene-1,4-dione; 2-Cyclohexenedione-1,4, 3,5,5-trimethyl-;
07.110	3425	11744	542-46-1	Циклогептадец-9-ен-1-он	Cycloheptadec-9-en-1-one	Civettone; Civetone;
07.111	3434	11135	541-91-3	3-Метилциклопентадекан-1-он	3-Methylcyclopentadecan-1-one	Muscone; Methylexaltone;
07.112	3435	11137	2758-18-1	3-Метил-2-циклопентен-1-он	3-Methyl-2-cyclopenten-1-one	1-Methyl-1-cyclopenten-3-one;
07.113	3440	11160	925-78-0	Нонан-3-он	Nonan-3-one	Ethyl hexyl ketone;
07.114	3442	11206	762-29-8	6,10,14-Триметилпентадека-5,9,13-триен-2-он	6,10,14-Trimethylpentadeca-5,9,13-trien-2-one	Farnesyl acetone; 2,6,10-Trimethyl-2,6,10-pentadecatrien-14-one; 6,10,14-Trimethyl-5,9,13-pentadecatrien-2-one;
07.115	3447	11057	20483-367	3,4-Дегидродигидробета-ионон	3,4-Dehydrodihydro-beta-ionone	Dehydrodihydroionone; 4-(2,6,6-trimethylcyclohexadien-1-yl)-2-butanone; 4-(2,6,6-Trimethyl-1,3-cyclohexadienyl)butan-2-one
07.116	3449	11062	43219-687	1-(1,4-Диметилциклогекс-3-ен-1-ил)этан-1-он	1-(1,4-Dimethylcyclohex-3-en-1-yl)ethan-1-one	4-Acetyl-1,4-dimethylcyclohex-1-ene;
07.117	3453	11077	42348-129	3-Этил-2-гидрокси-4-метилциклопент-2-ен-1-он	3-Ethyl-2-hydroxy-4-methylcyclopent-2-en-1-one	3-Ethyl-4-methylcyclopent-2-en-1-one; Ethylcyclopentenolone; 3-Ethyl-2-cyclopenten-2-ol-1-one;
07.118	3454	11078	53263-584	5-Этил-2-гидрокси-3-метилциклопент-2-ен-1-он	5-Ethyl-2-hydroxy-3-methylcyclopent-2-en-1-one	5-Ethyl-3-methylcyclopent-2-en-1-one;
07.119	3458	11046	10316-662	2-Гидроксициклогекс-2-ен-1-он	2-Hydroxycyclohex-2-en-1-one	Cyclohexane-1,2-dione;
07.120	3459	11198	4883-60-7	2-Гидрокси-3,5,5-триметилциклогекс-2-ен-1-он	2-Hydroxy-3,5,5-trimethylcyclohex-2-en-1-one	3,5,5-Trimethylcyclohexane-1,2-dione; 3,5,5-Trimethyl-1,2-cyclohexanedione;
07.121	3532	11751	10519-332	Дец-3-ен-2-он	Dec-3-en-2-one	Heptylidene acetone; Oenanthylidene acetone; Enanthylidene acetone;
07.122	3537	11914	108-83-8	2,6-Диметилгептан-4-он	2,6-Dimethylheptan-4-one	Diisobutyl ketone; Isobutyl ketone; iso-Nonanone; Isovalerone;

07.123	3542	11088	3796-70-1	Геранилацетон	Geranylacetone	alpha,beta-dihydropseudoionone; 6,10-Dimethyl-5(trans),9-undecadien-2-one
07.124	3548	11784	118-93-4	2-Гидроксиацетофенон	2-Hydroxyacetophenone	Ethanone, 1-(2-hydroxyphenyl)-; o-acetylphenol;
07.125	3550	11115	3142-66-3	3-Гидроксипентан-2-он	3-Hydroxypentan-2-one	Acetyl ethyl barbonol;
07.126	3553	11918	78-59-1	3,5,5-Триметилциклогекс-2-ен-1-он	3,5,5-Trimethylcyclohex-2-en-1-one	Isophorone; Isoacetopherone;
07.127	3560	11189	491-09-8	p-Мента-1,4(8)-диен-3-он	p-Mentha-1,4(8)-dien-3-one	Piperitenone; 4-Isopropylidene-1-methyl-1-cyclohexen-3-one;
07.128	3565	11703	7764-50-3	Дигидрокарвон	Dihydrocarvone	Cis-Dihydrocarvone; cis-Menthen-8(9)-one(2); 1-Methyl-4-isopropenylcyclohexan-2-one; p-Menth-8(10)-en-2-one
07.129	3577		3720-16-9	3-Метил-5-пропилциклогекс-2-ен-1-он	3-Methyl-5-propylcyclohex-2-en-1-one	1-Methyl-5-n-propyl-1-cyclohexen-3-one;
07.130	3622		57378-684	дельта-Дамаскон	delta-Damascone	1-(2,6,6-Trimethylcyclohex-3-enyl)but-2-en-1-one
07.131	3626	11060	17283-817	Дигидро-бета-Ионон	Dihydro-beta-ionone	4-(2,6,6-Trimethyl-2-cyclohexenyl)butan-2-one; 4-(2,6,6-Trimethylcyclohex-1-enyl)butan-2-one
07.132	3628	11059	31499-726	Дигидро-альфа-ионон	Dihydro-alpha-ionone	4-(2,6,6-Trimethylcyclohex-2-enyl)butan-2-one
07.133	3653		13171-001	4-Ацетил-6-tert-бутил-1,1-диметилден	4-Acetyl-6-t-butyl-1,1-dimethylindane	Celestolide; 4-Acetyl-1,1-dimethyl-6-tert-butylindane; Acetyl-6-tert-butyl-2,3-dihydro-1,1-dimethylindane
07.134	3659	11053	43052-875	альфа-Дамаскон	alpha-Damascone	4-(2,6,6-Trimethyl-2-cyclohexenyl)-2-butene-4-one; 1-(2,6,6-Trimethylcyclohex-2-enyl)but-2-en-1-one
07.135	3662	11884	28631-869	2,4-Дигидроксиацетофенон	2,4-Dihydroxyacetophenone	1-Ethanone;
07.136	3715		34545-885	4,4a,5,6-Тетрагидро-7-метилнафталин-2(3H)-он	4,4a,5,6-Tetrahydro-7-methylnapthalen-2(3H)-one	
07.137	3724	11808	2345-28-0	Пентадекан-2-он	Pentadecan-2-one	Methyl tridecyl ketone;
07.138	3725		63759-557	2-Пентилбут-1-ен-3-он	2-Pentylbut-1-en-3-one	3-Methylene-2-octanone; 3-Methyleneoctan-2-one
07.139	3761		81925-817	5-Метилгепт-2-ен-4-он	5-Methylhept-2-en-4-one	2-Hepten-4-one, 5-methyl;
07.140	3763		1128-08-1	3-Метил-2-пентилциклопент-2-ен-1-он	3-Methyl-2-pentylcyclopent-2-en-1-one	Dihydrojasmonone; 2-Pentyl-3-methyl-2-cyclopenten-1-one; 3-Methyl-2-(n-pentanyl)-2-cyclopentene-1-one;
07.142		11035	498-02-2	Ацетованилон	Acetovanillone	4-Hydroxy-3-methoxyacetophenone

07.146	2249	146	2244-16-8	d-Карвон	d-Carvone	d-p-Mentha-1,8-dien-2-one
07.147	2249	146	6485-40-1	l-Карвон	l-Carvone	l-p-Mentha-1,8-dien-2-one
07.148	3909	11047	108-94-1	Циклогексанон	Cyclohexanone	Cyclohexyl ketone; Hexanon; Ketoexamethylene;
07.149	3910	11050	120-92-3	Циклопентанон	Cyclopentanone	Ketocyclopentane; Ketopentamethylene;
07.150		11055	693-54-9	Декан-2-он	Decan-2-one	
07.151	3966	11056	928-80-3	Декан-3-он	Decan-3-one	
07.153	3776		20489-536	1,10-Дигидронуткатон	1,10-Dihydronootkatone	1,2,6-Trimethyl-9-isopropylene-bicyclo[4.4.0]decan-4-one
07.154		11106	5650-43-1	1-(3,5-Диметокси-4-гидроксифенил)пропан-1-он	1-(3,5-Dimethoxy-4-hydroxyphenyl)propan-1-one	Propiosyringone; 3,5-Dimethoxy-4-hydroxypropiofenone;
07.157		11068	1604-34-8	6,10-Диметилундекан-2-он	6,10-Dimethylundecan-2-one	
07.158		11069	6175-49-1	Додекан-2-он	Dodecan-2-one	
07.159	2479	551	4695-62-9	d-Фенхон	d-Fenchone	d-1,3,3-Trimethyl-2-norbornanone; 1,3,3-Trimethyl-bicyclo[2.2.1]heptan-2-one
07.160		11089	2922-51-2	Гептадекан-2-он	Heptadecan-2-one	Methyl pentadecyl ketone;
07.164		11105	2478-38-8	4-Гидрокси-3,5-диметоксиацетофенон	4-Hydroxy-3,5-dimethoxyacetophenone	Acetosyringone;
07.167		11108	4984-85-4	4-Гидроксигексан-3-он	4-Hydroxyhexan-3-one	
07.168	4143		490-03-9	(+/-)-2-Гидроксиперитон	(+/-)-2-Hydroxypiperitone	Piperitone, 2-hydroxy-; Diosphenol; Buccamphor; 2-Hydroxy-6-isopropyl-3-methyl-2-cyclohexen-1-one
07.169		11101	116-09-6	1-Гидроксипропан-2-он	1-Hydroxypropan-2-one	Hydroxyacetone; Acetyl carbinol;
07.170	4144	11202	23267-574	бета-Ионон эпоксид	beta-Ionone epoxide	4-(1,2-Epoxy-2,6,6-trimethylcyclohexyl)but-3-en-2-one
07.171	4198	11125	18358-537	Изопинокамфон	Isopinocampone	2,6,6-Trimethyl-bicyclo[3.1.1]cycloheptan-3-one
07.172	3939	11127	500-02-7	4-Изопропилциклогекс-2-ен-1-он	4-Isopropylcyclohex-2-en-1-one	Cryptone; Crypton; 4-Isopropylcyclohex-2-enone; DL-Kryptone;
07.175	2910	2052	89-81-6	p-Мент-1-ен-3-он	p-Menth-1-en-3-one	Piperitone; alpha-Piperitone; 1-Methyl-4-isopropyl-1-cyclohexen-3-one;
07.176	2667	2035	89-80-5	транс-Ментон	trans-Menthone	trans-p-Menthan-3-one
07.177	3868		33046-810	7-Метил-3-октенон-2	7-Methyl-3-octenone-2	trans-7-Methyl-3-octen-2-one;
07.178		11131	563-80-4	3-Метилбутан-2-он	3-Methylbutan-2-one	3-Methyl-1-butenol-2; Methyl isopropyl ketone;
07.179	3946		583-60-8	2-	2-	Methyl anone;



				Метилциклогексанон	Methylcyclohexanone	
07.180	3947		591-24-2	3-Метилциклогексанон	3-Methylcyclohexanone	
07.181		11146	928-68-7	6-Метилгептан-2-он	6-Methylheptan-2-one	
07.184	4057		113486-296	3-Метилнона-2,4-дион	3-Methylnona-2,4-dione	3-Methyl-2,4-nonanedione
07.185		11157	565-61-7	3-Метилпентан-2-он	3-Methylpentan-2-one	
07.187		11162	32064-72-5	Нон-2-ен-4-он	Non-2-en-4-one	
07.188	3955	11163	14309-57-0	Нон-3-ен-2-он	Non-3-en-2-one	
07.189		11161	4485-09-0	Нонан-4-он	Nonan-4-one	
07.194		11182	2550-26-7	4-Фенилбутан-2-он	4-Phenylbutan-2-one	
07.195		11042	103-79-7	1-Фенилпропан-2-он	1-Phenylpropan-2-one	Benzyl methyl ketone;
07.196		11186	80-57-9	Пин-2-ен-4-он	Pin-2-en-4-one	Verbenone; 4,6,6-Trimethylbicyclo[3.1.1]hept-3-en-2-one
07.198		11191	141-10-6	Псевдо-ионон	Pseudo-ionone	6,10-Dimethylundeca-3,5,9-trien-2-one
07.199		11192	2345-27-9	Тетрадекан-2-он	Tetradecan-2-one	
07.205		11205	502-69-2	6,10,14-Триметилпентадекан-2-он	6,10,14-Trimethylpentadecan-2-one	Hexahydrofarnesyl acetone;
07.215	2230	140	464-49-3	(1R)-1,7,7-Триметилбисцикло[2.2.1]гептан-2-он	(1R)-1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	d-Camphor;
07.219	3196	11786	6261-18-3	транс-3-Метил-2(2-пентенил)-2-циклопентен-1-он	trans-3-Methyl-2(2-pentenyl)-2-cyclopenten-1-one	trans-Jasmone;
07.224	3243	2340	23726-91-2	транс-1-(2,6,6-Триметил-1-циклогексен-1-ил)бут-2-ен-1-он	tr-1-(2,6,6-Trimethyl-1-cyclohexen-1-yl)but-2-en-1-one	
07.225	3659	11053	23726-94-5	цис-1-(2,6,6-Триметил-2-циклогексен-1-ил)бут-2-ен-1-он	cis-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)but-2-en-1-one	cis-alpha-Damascone;
07.236		11171	22610-86-2	5-Октен-2-он	5-Octen-2-one	
07.238	4139		37160-77-3	3-Гидрокси-2-октанон	3-Hydroxy-2-octanone	2- Octanone, 3- hydroxy-
07.240	4000		13019-20-0	2-Метилгептан-3-он	2-Methylheptan-3one	

07.242	4052		5355-63-5	3-Гидрокси-4-фенилбутан-2-он	3-Hydroxy-4-phenylbutan-2-one	2-Butanone, 3-hydroxy-4-phenyl-
07.244	4001		20859-10-3	транс-6-Метил3-гептен-2-он	trans-6-Methyl-3-hepten-2-one	
07.247	4008		30086-02-3	Октадиен-2-он/3.5-(Е,Е)	Octadien-2-one/3.5(E,E)	
07.248	4060		585-25-1	2,3-Октандион	2,3-Octanedione	Octan-2,3-dione
07.249	4022		927-49-1	Ундекан-6-он	Undecan-6-one	
07.251	4316		577-16-2	2-Метилацетофенон	2-Methylacetophenone	
08.001	2487	1	64-18-6	Муравьиная кислота	Formic acid	Methanoic acid;
08.002	2006	2	64-19-7	Уксусная кислота	Acetic acid	Ethanoic acid; Ethylic acid; Methanecarboxylic acid;
08.003	2924	3	79-09-4	Пропионовая кислота	Propionic acid	Methylacetic acid; Ethylformic acid;
08.004	2611	4	598-82-3	Молочная кислота	Lactic acid	alpha-Hydroxypropanoic acid; 2-Hydroxypropanoic acid
08.005	2221	5	107-92-6	Масляная кислота	Butyric acid	Ethylacetic acid; Butanoic acid; 1-Propanecarboxylic acid;
08.006	2222	6	79-31-2	2-Метилпропионовая кислота	2-Methylpropionic acid	Isobutyric acid; Isopropylformic acid; Butyric iso acid;
08.007	3101	7	109-52-4	Валериановая кислота	Valeric acid	Pentanoic acid; Propylacetic acid; Valerianic acid; 1-Butanecarboxylic acid;
08.008	3102	8	503-74-2	3-Метилмасляная кислота	3-Methylbutyric acid	Isopentanoic acid; beta-Methylbutyric acid; Delphinic acid; Active valeric acid; beta-Methylbutyric acid;
08.009	2559	9	142-62-1	Гексановая кислота	Hexanoic acid	Caproic acid; Hexoic acid; 2-Butylacetic acid; Pentylformic acid;
08.010	2799	10	124-07-2	Октановая кислота	Octanoic acid	Caprylic acid; Octoic acid; C-8; Octylic acid; 1-Heptanecarboxylic acid;
08.011	2364	11	334-48-5	Декановая кислота	Decanoic acid	Capric acid; Decylic acid; 1-Nonanecarboxylic acid;
08.012	2614	12	143-07-7	Додекановая кислота	Dodecanoic acid	Lauric acid; Dodecoic acid; Laurostearic acid;
08.013	2815	13	112-80-1	Олеиновая кислота	Oleic acid	Oleinic acid; trans-Elaidic acid; Octadec-9-enoic acid
08.014	2832	14	57-10-3	Гексадекановая кислота	Hexadecanoic acid	Palmitic acid; Hexadecylic acid; Cetylic acid; 1-Pentadecanecarboxylic acid;
08.015	3035	15	57-11-4	Октадекановая кислота	Octadecanoic acid	Stearic acid; Octadecylic acid;
08.016	2764	16	544-63-8	Тетрадекановая кислота	Tetradecanoic acid	Myristic acid; Crodacid;
08.017	2655	17	6915-15-7	Яблочная кислота	l-Malic acid	2-Hydroxy-1,4-butanedioic acid;

						Hydroxysuccinic acid;; 2-Hydroxybutane-1,4-dioic acid
08.018	3044	18	133-37-9	Винная кислота	Tartaric acid	Racemic acid; 2,3-Dihydroxysuccinic acid; 2,3-Dihydroxybutanedioic acid
08.019	2970	19	127-17-3	Пировиноградная кислота	Pyruvic acid	2-Ketopropionic acid; Acetylformic acid; Alpha-Ketopropionoc acid; Pyroracemic acid; 2-Oxopropanoic acid
08.021	2131	21	65-85-0	Бензойная кислота	Benzoic acid	Benzenecarboxylic acid; Phenylformic acid; Dracylic acid; Carboxybenzene; Phenyl carboxylic acid;
08.022	2288	22	621-82-9	Коричная кислота	Cinnamic acid	tert-beta-Phenylacrylic acid; 3-Phenyl-2-propenoic acid; $\beta$ -Phenylacrylic acid; 3-Phenylacrylic acid; 3-Phenylprop-2-enoic acid
08.023	2627	23	123-76-2	4-Оксовалериановая кислота	4-Oxovaleric acid	Laevulinic acid; Acetopropionic acid; Laevulic acid; Levulinic acid; 4-Oxopentanoic acid; 3-Acetylpropionic acid;
08.024		24	110-15-6	Янтарная кислота	Succinic acid	Butan-1,4-dioic acid; 1,2-Ethanedicarboxylic acid; Butanedioic acid
08.025	2488	25	110-17-8	Фумаровая кислота	Fumaric acid	Allomalenic acid; Boletic acid; tr-Butenedionic acid; tr-1,2-ethylenedicarboxylic acid; But-2(trans)-enedioic acid
08.026	2011	26	124-04-9	Адипиновая кислота	Adipic acid	1,4-Butanedicarboxylic acid; Hexanedioic acid
08.028	3348	28	111-14-8	Гептановая кислота	Heptanoic acid	n-Heptanoic; Enanthic; n-Heptylic; n-Heptoic acid; Oenanthic; Oenanthic acid; n-Heptanoic acid; Enanthic acid;
08.029	2784	29	112-05-0	Нонановая кислота	Nonanoic acid	Pelargonic acid; Octane-1-carboxylic acid; Nonylic acid; Nonoic acid;
08.031	2754	31	97-61-0	2-Метилвалериановая кислота	2-Methylvaleric acid	2-Methylpentanoic acid; Methylpropylacetic acid;
08.032	2889	32	501-52-0	3-Фенилпропионовая кислота	3-Phenylpropionic acid	Benzylacetic acid; Hydrocinnamic acid; $\beta$ -Phenylpropionic acid; Dihydrocinnamic acid;
08.033	2010	33	499-12-7	Проп-1-ен-1,2,3-трикарбоновая кислота	Prop-1-ene-1,2,3-tricarboxylic acid	Aconitic acid; Achilleic acid; Equisetic acid; Citridic acid; 2-Carboxyglutaconic acid;
08.034	2347	34	5292-21-7	Циклогексилуксусная кислота	Cyclohexylacetic acid	Cyclohexaneacetic acid;
08.035	3191	582	4536-23-6	2-Метилгексановая кислота	2-Methylhexanoic acid	2-Methylcaproic acid; 2-Butylpropanoic acid; Hexana-2-carboxylic acid;
08.036	3142	616	502-47-6	Цитронелловая кислота	Citronellic acid	Rhodinolic acid; Rhodinic acid; 3,7-Dimethyloct-6-enoic acid
08.037	3891	653	328-50-7	2-Оксоглутаровая кислота	2-Oxoglutaric acid	alpha-Ketoglutaric acid; 2-Oxo-1,5-pentanedioic acid; 2-Ketoglutaric acid; 2-Oxopentanedioic acid

08.038	2878	672	103-82-2	Фенилуксусная кислота	Phenylacetic acid	alpha-Toluic acid; Benzylcarboxylic acid;
08.039	3247	689	112-38-9	Ундец-10-еновая кислота	Undec-10-enoic acid	Undecylenic acid; 10-Hendecenoic acid;
08.040	3986	693	99-96-7	4-Гидроксибензойная кислота	4-Hydroxybenzoic acid	p-Hydroxybenzoic acid;
08.041	3380	694	60-33-3	Октадека-9,12-диеновая	Octadeca-9,12-dienoic acid	Linoleic acid; Linoleic and Linolenic acids;
08.042	3245	696	112-37-8	Ундекановая кислота	Undecanoic acid	n-Undecoic acid; n-Undecylic acid; Hendecanoic acid;
08.043	3988	697	121-34-6	Ванилиновая кислота	Vanillic acid	4-Hydroxy-3-methoxy-benzoic acid; 4-Hydroxy-3-methoxybenzoic acid
08.044	3143	744	21016-46-6	2,4-Диметилпент-2-еновая	2,4-Dimethylpent-2-enoic acid	
08.045	2429	2001	88-09-5	2-Этилмасляная кислота	2-Ethylbutyric acid	alpha-Ethylbutyric acid; Diethylacetic acid;
08.046	2695	2002	116-53-0	2-Метилмасляная кислота	2-Methylbutyric acid	Methylethyl acetic acid; Butane-2-carboxylic acid;
08.047	2706	2003	1188-02-9	2-Метилгептановая кислота	2-Methylheptanoic acid	2-Methyloenanthic acid; Methylamylacetic acid; Isocaprylic acid; Isooctanoic acid;
08.048	2843	2004	591-80-0	Пент-4-еновая кислота	Pent-4-enoic acid	Allyl acetic acid;
08.049	2872	2005	122-59-8	Феноксиуксусная кислота	Phenoxyacetic acid	Glycollic acid phenyl ether; Phenoxyethanoic acid; o-Phenylglycolic acid;
08.050	3170	2256	4219-24-3	Гекс-3-еновая кислота	Hex-3-enoic acid	
08.051	3869	2262	759-05-7	3-Метил-2-оксомаляная кислота	3-Methyl-2-oxobutyric acid	2-Oxoisovaleric acid; Dimethylpyruvic acid;
08.052	3871	2263	816-66-0	4-Метил-2-оксовалериановая кислота	4-Methyl-2-oxovaleric acid	2-Keto-4-methyl-pentanoic acid; 4-Methyl-2-oxopentanoic acid; alpha-Ketoisocaproic acid; Isopropyl pyruvic acid;
08.053		2264	141-82-2	Малоновая кислота	Malonic acid	Methanedicarboxylic acid; Propane dioic acid; Propan 1,3-dioic acid; Propanedioic acid
08.054	3169	11777	13419-697	Гекс-2(транс)-еновая кислота	Hex-2(trans)-enoic acid	β-Propylacrylic acid; 3-Propylacrylic acid;
08.055	3195	11680	3142-72-1	2-Метил-2-пентеновая кислота	2-Methyl-2-pentenoic acid	3-Ethyl-2-methylacrylic acid; 2-Pentene-2-carboxylic acid; 2-Propylidinepropionic acid;
08.056	3437	10149	105-43-1	3-Метилвалериановая кислота	3-Methylvaleric acid	Sec-butyl acetic acid; 2-Methyl-butane-1-carboxylic acid; β-Methylvaleric acid;
08.057	3463	10150	646-07-1	4-Метилвалериановая кислота	4-Methylvaleric acid	Isohexanoic acid; Isocaproic acid; 4-Methyl pentanoic acid;
08.058	3464	10147	37674-638	2-Метилпент-3-еновая кислота	2-Methylpent-3enoic acid	

08.059	3511	10148	1575-74-2	2-Метилпент-4-еновая кислота	2-Methylpent-4enoic acid	
08.060	3531	11911	98-89-5	Циклогексанкарбоновая кислота	Cyclohexanecarboxylic acid	
08.061	3572	10142	628-46-6	5-Метилгексановая кислота	5-Methylhexanoic acid	Isoheptanoic acid; Isovenanthic acid; Isoamyl acetic acid;
08.062	3574	11925	45019-281	4-Метилнонановая кислота	4-Methylnonanoic acid	4-Methylpelargonic acid;
08.063	3575	11926	54947-749	4-Метилоктановая кислота	4-Methyloctanoic acid	
08.064	3599	10168	80-59-1	2-Метилкротоновая кислота	2-Methylcrotonic acid	Tiglic acid; 2-Methyl crotonic acid; 2-Methyl-2-butenic acid; trans-2,3-Dimethylacrylic acid; Methylbut-2(trans)-enoic acid
08.065	3660	10090	14436-329	Дец-9-еновая кислота	Dec-9-enoic acid	
08.066	3723		600-18-0	2-Оксомаслянная кислота	2-Oxobutyric acid	Ketobutyric acid; Alpha-Ketobutyric acid;
08.067	3731		71298-42-5	1,2,5,6-Тетрагидрокуминовая кислота	1,2,5,6-Tetrahydrocuminic acid	4-Isopropyl-3-cyclohexene-1-carboxylic acid; 3-Cyclohexene-1-carboxylic acid, 4-(1-methylethyl)-, (±)-; 1-(4-Isopropylcyclohex-3-enyl) carboxylic acid
08.068	3742		72881-27-7	Дец-(5-и 6)-енная кислота	Dec-(5-and 6)-enoic acid	
08.070	3187	10138	541-47-9	3-Метилкротоновая кислота	3-Methylcrotonic acid	3,3-Dimethylacrylic acid; 3-Methylbut-2-enoic acid; β,β-Dimethylacrylic acid; Senecioic acid; 3-Methylbut-2(trans)-enoic acid
08.071	3945	10077	100-09-4	p-Анисовая кислота	p-Anisic acid	4-Anisic acid; Draconic acid; p-Methoxybenzoic acid; 4-Methoxybenzoic acid
08.072	3908	10080	3724-65-0	Бут-2-еновая кислота (цис и транс)	But-2-enoic acid (cis and trans)	Crotonic acid (trans) + isoCrotonic acid(cis);
08.073	3913	10087	3913-85-7	Дец-2-еновая кислота	Dec-2-enoic acid	2-Decenoic acid;
08.074		10088	15469-77-9	Дец-3-еновая кислота	Dec-3-enoic acid	3-decenoic acid;
08.075	3914	10089	26303-90-2	Дец-4-еновая кислота	Dec-4-enoic acid	4-Decenoic acid;
08.076	3798		89-86-1	2,4-Дигидроксибензойная кислота	2,4-Dihydroxybenzoic acid	
08.079	3800		16493-80-4	4-Этилоктановая кислота	4-Ethyl octanoic acid	
08.080		10170	149-91-7	Галловая кислота	Gallic acid	3,4,5-Trihydroxybenzoic acid; 3,4,5-trihydroxybenzoic acid
08.081	4121	10094	459-80-3	Гераниевая кислота	Geranic acid	3,7- Dimethyl-2(trans),6-octadienoic acid;

						3,7-dimethylocta-2,6-dienoic acid; 3,7-dimethyl-2(trans),6-Octadienoic acid
08.083		10102	18999-28-5	Гепт-2-еновая кислота	Hept-2-enoic acid	
08.085	3921		110-44-1	Гекса-2,4-диеновая кислота	Hexa-2,4-dienoic acid	
08.086	3843		1113-60-6	3-Гидрокси-2-оксoproпионовая кислота	3-Hydroxy-2-oxopropionic acid	Propanoic acid, 3-hydroxy-2-oxo-; 3-Hydroxy-2-oxopropanoic acid;
08.087		10111	530-57-4	4-Гидрокси-3,5-диметоксибензойная кислота	4-Hydroxy-3,5-dimethoxybenzoic acid	Syringic acid;
08.089		10113	1135-24-6	4-Гидрокси-3-метоксикоричная кислота	4-Hydroxy-3-methoxycinnamic acid	Ferulic acid; 3-(4-Hydroxy-3-methoxyphenyl)prop-2-enoic acid
08.090		10118	498-36-2	2-Гидрокси-4-метилвалериановая кислота	2-Hydroxy-4-methylvaleric acid	
08.092	3944		586-38-9	3-Метоксибензойная кислота	3-Methoxybenzoic acid	m-Anisic acid; 3-Anisic acid;
08.093	3870	10146	39748-49-7	3-Метил-2-оксoвалериановая кислота	3-Methyl-2-oxovaleric acid	Methyl ethyl pyruvic acid; Sodium 3-methyl-2-oxopentanoic acid;
08.099	4180		10321-71-8	(E,Z) 4-Метилпент-2-еновая кислота	(E,Z) 4-Methylpent-2-enoic acid	4- Methyl- 2- pentenoic acid
08.101	3954	10153	3760-11-0	Нон-2-еновая кислота	Non-2-enoic acid	
08.102		10154	4124-88-3	Нон-3-еновая кислота	Non-3-enoic acid	
08.103		10079	123-99-9	Нонандикарбоновая кислота	Nonanedioic acid	Azelaic acid;
08.107	4193	10163	13991-37-2	Пент-2-еновая кислота	Pent-2-enoic acid	
08.108		10164	492-37-5	2-Фенилпропионовая кислота	2-Phenylpropionic acid	hydratropic-acid-;
08.109	3892		156-06-9	3-Фенилпиروиноградная кислота	3-Phenylpyruvic acid	3-Phenyl-2-oxopropanoic acid; 3-Oxo-3-phenylpropanoic acid
08.112	3985	10165	69-72-7	Салициловая кислота	Salicylic acid	2-Hydroxybenzoic acid; 2-Hydroxy-benzoic acid
08.113	3277	24	150-90-3	Янтарной кислоты динатриевая соль	Succinic acid, disodium salt	
08.114	3957	10156	1871-67-6	2-Октеновая кислота	2-Octenoic acid	trans-2-Octenoic acid; Oct-2-enoic acid
08.119	3169	11777	1191-04-4	2-Гексеновая	2-Hexenoic acid	

				кислота		
08.120	3599	10168	13201-46-2	2-Метил-2-бутеновая кислота	2-Methyl-2-butenoic acid	
08.123	3920		10352-88-2	транс-2-Гептеновая кислота	trans-2-Heptenoic acid	
09.001	2414	191	141-78-6	Этил ацетат	Ethyl acetate	Acetic ether;
09.002	2925	192	109-60-4	Пропил ацетат	Propyl acetate	Propyl ethanoate;
09.003	2926	193	108-21-4	Изопропил ацетат	Isopropyl acetate	Propyl iso acetate;
09.004	2174	194	123-86-4	Бутил ацетат	Butyl acetate	Butyl ethanoate;
09.005	2175	195	110-19-0	Изобутил ацетат	Isobutyl acetate	Butyl iso acetate; 2-Methyl-1-propyl acetate; Iso-butyl acetate; 2-Methylpropyl acetate
09.006	2565	196	142-92-7	Гексил ацетат	Hexyl acetate	Hexyl ethanoate; 1-Acetoxy-hexane;
09.007	2806	197	112-14-1	Октил ацетат	Octyl acetate	Acetate C-8; n-Octanyl acetate; 2-Ethyl hexyl acetate; Octyl ethanoate;
09.008	2788	198	143-13-5	Нонил ацетат	Nonyl acetate	Acetate C-9; Pelargonyl acetate; Nonyl ethanoate;
09.009	2367	199	112-17-4	Децил ацетат	Decyl acetate	Acetate C-10; Decyl ethanoate; Decanyl acetate; 1-Acetoxydecane; Acetic acid decyl ester; Decanol acetate;
09.010	2616	200	112-66-3	Додецил ацетат	Dodecyl acetate	Lauryl acetate; Acetate C-12; Dodecanyl acetate; Lauryl ethanoate; Dodecanyl ethanoate;
09.011	2509	201	105-87-3	Геранил ацетат	Geranyl acetate	Geraniol acetate; trans-3,7-Dimethyl-2,6-octadien-1-yl acetate; 2,6-Dimethyl-2,6-octadiene-8-yl acetate; 3,7-Dimethylocta-2(trans), 6-dienyl acetate
09.012	2311	202	150-84-5	Цитронеллил ацетат	Citronellyl acetate	3,7-Dimethyl-6-octen-1-yl acetate; 3,7-Dimethyl-6-octen-1-yl ethanoate; 3,7-Dimethyloct-6-enyl acetate
09.013	2636	203	115-95-7	Диналил ацетат	Linalyl acetate	Bergamol; 3,7-Dimethyl-1,6-octadien-3-yl acetate; Licareol acetate; Linalool acetate; 1,5-Dimethyl-1-vinylhex-4-enyl acetate
09.014	2135	204	140-11-4	Бензил ацетат	Benzyl acetate	Benzyl ethanoate;
09.015	3047	205	80-26-2	альфа-Терпинил ацетат	alpha-Terpinyl acetate	3-Cyclohexene-1-methanol, alpha,alpha, 4-trimethyl, acetate; p-Menth-1-en-8-yl acetate
09.016	2668	206	29066-34-0	Ментил ацетат	Menthyl acetate	l-p-Menth-3-yl acetate; Menthol acetate; 1-Isopropyl-4-methylcyclohex-2-yl acetate; (1-alpha,2-beta,5-alpha)-2-Isopropyl-5-methylcyclohexyl acetate
09.017	2159	207	76-49-3	Борнил ацетат	Bornyl acetate	Borneol acetate; 2-Camphanyl acetate; Bornyl ethanoate; l-Bornyl acetate; d-Bornyl acetate; Bornyl acetic ether; 1,7,7-Trimethyl-bicyclo[2.2.1]hept-2-yl acetate
09.018	2293	208	103-54-8	Циннамил ацетат	Cinnamyl acetate	3-Phenyl-2-propen-1-yl acetate; 3-Phenylallyl acetate; 3-Phenylprop-2-enyl acetate
09.019	2098	209	104-21-2	п-Анилил ацетат	p-Anisyl acetate	Benzenemethanol, 4-methoxy-, acetate;

						Anisyl alcohol, acetate; Benzyl alcohol, p-Methoxy, acetate; 4-Methoxybenzyl acetate
09.020	2469	210	93-28-7	Эвгенил ацетат	Eugenyl acetate	Eugenol acetate; Aceteugenol; 2-Methoxy-4-phenyl acetate; Acetyl eugenol; 4-Allyl-2-methoxyphenyl acetate
09.021		211	628-63-7	Пентил ацетат	Pentyl acetate	Amyl acetate;
09.022	2547	212	112-06-1	Гептил ацетат	Heptyl acetate	Acetate C-7; Heptanyl acetate; Heptyl ethanoate,;
09.023	2676	213	79-20-9	Метил ацетат	Methyl acetate	Methyl ethanoate;
09.024	2055	214	123-92-2	Изопентил ацетат	Isopentyl acetate	Isoamyl acetate; beta-Methyl butyl acetate; Amyl acetate common; Amyl iso acetate; Isoamyl ethanoate; 3-Methylbutyl acetate
09.025	2425	215	10031-875	2-Этилбутил ацетат	2-Ethylbutyl acetate	beta-Ethylbutyl acetate;
09.026	2064	216	7493-78-9	альфа-Пентилциннамил ацетат	alpha-Pentylcinnamyl acetate	alpha-n-Amyl-beta-phenylacryl acetate; alpha-Pentylcinnamyl acetate; Floxin acetate; 2-Pentyl-3-phenylprop-2-enyl acetate
09.027	2349	217	622-45-7	Циклогексил ацетат	Cyclohexyl acetate	Cyclohexane acetate;
09.028	2348	218	21722-838	2-Циклогексилэтил ацетат	2-Cyclohexylethyl acetate	Cyclohexane ethyl acetate; Ethylcyclohexyl acetate; Hexahydrophenyl ethyl acetate
09.029	2735	219	103-07-1	1,1-Диметил-3-фенилпропил ацетат	1,1-Dimethyl-3-phenylpropyl acetate	Dimethyl phenethyl carbonyl acetate; 1,1-Dimethyl-3-phenylpropan-1-yl acetate; 2-Methyl-4-phenyl-2-butyl acetate;
09.030	2470	220	93-29-8	2-Метокси-4-(проп-1-енил)фенил ацетат	2-Methoxy-4-(prop-1-enyl)phenyl acetate	Isoeugenyl acetate; Isoeugenol acetate; 2-Methoxy-4-propenyl phenyl acetate; Acetisoeugenol;
09.031	2857	221	103-45-7	Фенетил ацетат	Phenethyl acetate	2-Phenylethyl acetate; Benzyl carbonyl acetate;
09.032	2890	222	122-72-5	3-Фенилпропил ацетат	3-Phenylpropyl acetate	Phenylpropyl acetate; 3-phenyl-1-propyl acetate; Hydrocinnamyl acetate; beta-Phenylpropyl acetate;
09.033	2981	223	141-11-7	Родинил ацетат	Rhodinyl acetate	alpha-Citronellyl acetate; 3,7-Dimethyloct-7-enyl acetate
09.034	3007	224	1323-00-8	Санталил ацетат	Santalyl acetate	alpha-Santalol, acetate; beta-Santalol, acetate;
09.035	3108	225	881-68-5	Ванилил ацетат	Vanillyl acetate	Acetyl vanillin; Benzaldehyde, 4-(acetyloxy)-3-methoxy-; 3-Methoxy-4-acetoxybenzaldehyde; 4-Acetoxy-3-methoxybenzaldehyde
09.036	3073	226	140-39-6	п-Толилацетат	p-Tolyl acetate	p-Cresyl acetate; 4-methylbenzoic acid methyl ester; Acetyl p-Cresol; p-Tolyl ethanoate; p-Cresylic acetate; 4-Methylphenyl acetate
09.037	2418	245	140-88-5	Этил акрилат	Ethyl acrylate	Ethyl propenoate; Ethyl prop-2-enoate
09.038	2693	263	623-42-7	Метил бутират	Methyl butyrate	Methyl butanoate;
09.039	2427	264	105-54-4	Этил бутират	Ethyl butyrate	Ethyl n-butanoate; Butyric ether; Ethyl butanoate;



09.040	2934	266	105-66-8	Пропил бутират	Propyl butyrate	Propyl butanoate;
09.041	2935	267	638-11-9	Изопропил бутират	Isopropyl butyrate	Propyl iso butyrate; Propyl iso butanoate; Isopropyl butanoate;
09.042	2186	268	109-21-7	Бутил бутират	Butyl butyrate	Butyl butanoate;
09.043	2187	269	539-90-2	Изобутил бутират	Isobutyl butyrate	Butyl iso butyrate; 2-Methyl-1-propyl butyrate; Isobutyl butanoate; 2-Methylpropyl butanoate
09.044	2059	270	540-18-1	Пентил бутират	Pentyl butyrate	Amyl butyrate; Amyl butanoate;
09.045	2568	271	2639-63-6	Гексил бутират	Hexyl butyrate	n-Hexyl n-butanoate; Hexyl butanoate;
09.046	2807	272	110-39-4	Октил бутират	Octyl butyrate	Octyl butanoate;
09.047	2368	273	5454-09-1	Децил бутират	Decyl butyrate	Decyl butanoate; 1-Butyroxyl decane;
09.048	2512	274	106-29-6	Геранил бутират	Geranyl butyrate	trans-3,7-Dimethyl-2,6-octadien-1-yl butanoate; 3,7-Dimethylocta-2(trans), 6-dienyl butanoate
09.049	2312	275	141-16-2	Цитронеллил бутират	Citronellyl butyrate	3,7-Dimethyl-6-octen-1-yl butyrate; 3,7-Dimethyloct-6-enyl butanoate
09.050	2639	276	78-36-4	Линалил бутират	Linalyl butyrate	3,7-Dimethyl-1,6-octadien-3-yl butyrate; Linalyl n-butyrate; 1,5-Dimethyl-1-vinylhex-4-enyl butanoate
09.051	2140	277	103-37-7	Бензил бутират	Benzyl butyrate	Benzyl n-butyrate; Benzyl n-butanoate; Benzyl butanoate ;
09.052	3049	278	2153-28-8	Терпинил бутират	Terpinyl butyrate	p-Menth-1-en-8-yl butyrate; p-Menth-1-en-8-ol butyrate; p-Menth-1-en-8-yl butanoate
09.053	2296	279	103-61-7	Циннамил бутират	Cinnamyl butyrate	Phenylpropenyl-n-butyrate; 3-Phenyl-2-propen-1-yl butanoate; Butyric acid, 3-phenyl-2-propen-1-yl ester; 3-Phenylprop-2-enyl butanoate
09.054	2021	280	2051-78-7	Аллил бутират	Allyl butyrate	Allyl-n-butyrate; Vinyl carbinyl butyrate; 2-Propen-1-yl butanoate; Allyl butanoate;
09.055	2060	282	106-27-4	3-Метилбутил бутират	3-Methylbutyl butyrate	Isoamyl butyrate; Isoamyl n-butyrate;
09.057	2891	285	80866-837	2-Фенилпропил бутират	2-Phenylpropyl butyrate	alpha-Phenylpropyl alcohol, butyric ester; beta-methylphenethyl butyrate; Hydratropyl butyrate;
09.058	2100	286	6963-56-0	p-Анисилбутират	p-Anisyl butyrate	Benzyl alcohol, p-methoxy, butyrate; Butyric acid, p-methoxybenzyl ester; 4-Methoxybenzyl butanoate
09.059	2432	309	110-38-3	Этил деканоат	Ethyl decanoate	Ethyl caprate; Ethyl decylate; Ethyl caprinate;
09.060	2439	310	123-66-0	Этил гексаноат	Ethyl hexanoate	Ethyl caproate; Capronic ether absolute; Ethyl capronate;
09.061	2949	311	626-77-7	Пропил гексаноат	Propyl hexanoate	Propyl caproate;
09.062	2950	312	2311-46-8	Изопропил гексаноат	Isopropyl hexanoate	Propyl iso hexanoate; Propyl iso Hexylate; Isopropyl capronate; Isopropyl caproate;
09.063	2201	313	626-82-4	Бутил гексаноат	Butyl hexanoate	Butyl caproate;

09.064	2202	314	105-79-3	Изобутил гексаноат	Isobutyl hexanoate	Isobutyl caproate; Butyl iso hexanoate; Butyl iso caproate; 2-Methylpropyl hexanoate
09.065	2074	315	540-07-8	Пентил гексаноат	Pentyl hexanoate	Amyl hexanoate; Amyl caproate; Pentyl caproate,;
09.066	2572	316	6378-65-0	Гексил гексаноат	Hexyl hexanoate	Hexyl caproate;
09.067	2515	317	10032-027	Геранил гексаноат	Geranyl hexanoate	Geranyl caproate; trans-3,7-Dimethyl-2,6-octadien-1-yl hexanoate; 3,7-Dimethylocta-2(trans), 6-dienyl n-hexanoate
09.068	2643	318	7779-23-9	Линалил гексаноат	Linalyl hexanoate	3,7-Dimethyl-1,6-octadien-3-yl hexanoate; Linalyl caproate; Linalyl hexoate; Linelyl hexylate; 1,5-Dimethyl-1-vinylhex-4-enyl hexanoate
09.069	2708	319	106-70-7	Метил гексаноат	Methyl hexanoate	Methyl caproate;
09.070	2075	320	2198-61-0	3-Метилбутил гексаноат	3-Methylbutyl hexanoate	Isoamyl hexanoate; Isoamyl caproate; Isopentyl n-hexanoate; Pentyl iso hexanoate; Pentyl iso caproate; Isopentyl hexanoate;
09.071	2896	321	6281-40-9	3-Фенилпропил гексаноат	3-Phenylpropyl hexanoate	Hydrocinnamyl hexanoate; Hydrocinnamylcaproate; 3-Phenylpropyl caproate;
09.072	2434	339	109-94-4	Этил формат	Ethyl formate	Ethyl methanoate; Formic ether;
09.073	2943	340	110-74-7	Пропил формат	Propyl formate	Propyl methanoate;
09.074	2552	341	112-23-2	Гептил формат	Heptyl formate	n-Heptyl methanoate; Heptyl methanoate;
09.075	2809	342	112-32-3	Октил формат	Octyl formate	Octyl mehtanoate;
09.076	2514	343	105-86-2	Геранил формат	Geranyl formate	trans-3,7-Dimethyl-2,6-octadien-1-yl formate; trans-3,7-Dimethyl-2,6-octadien-1-yl-methanoate; Geranyl methanoate; 3,7-Dimethylocta-2(trans),6-dienyl formate
09.077	2145	344	104-57-4	Бензил формат	Benzyl formate	Formic acid benzyl ester; Benzyl methanoate;
09.078	2314	345	105-85-1	Цитронеллил формат	Citronellyl formate	3,7-Dimethyl-6-octen-1-yl formate; 3,7-Dimethyl-6-octen-1-yl methanoate; 3,7-Dimethyloct-6-enyl formate
09.079	2984	346	141-09-3	Родинил формат	Rhodinyl formate	alpha-Citronellyl formate; 3,7-Dimethyloct-7-enyl formate
09.080	2642	347	115-99-1	Линалил формат	Linalyl formate	3,7-Dimethyl-1,6-octadien-3-yl formate; Linalool formate; 1,5-Dimethyl-1-vinylhex-4-enyl formate
09.081	3052	348	2153-26-6	альфа-Терпинил формат	alpha-Terpinyl formate	p-Menth-1-en-8-yl formate;
09.082	2161	349	7492-41-3	Борнил формат	Bornyl formate	Bornyl methanoate; Borneol formate; d-Bornyl formate; endo-2-Bornanyl formate; 2-Camphanyl formate; l-Bornyl formate; 1,7,7-Trimethyl-bicyclo[2.2.1]hept-2-yl formate
09.083	2864	350	104-62-1	Фенетил формат	Phenethyl formate	2-Phenylethyl formate; 2-Phenylethyl methanoate; Benzylcarbinyл formate; Benzylcarbinyл methanoate;
09.084	2895	351	104-64-3	3-Фенилпропил	3-Phenylpropyl	Phenylpropyl formate; Hydrocinnamyl

				формат	formate	formate; Hydrocinnamyl methanoate; beta-Phenylpropyl formate;
09.085	2299	352	104-65-4	Циннамил формат	Cinnamyl formate	3-Phenyl-2-propen-1-yl formate; 3-Phenylallyl formate; Cinnamyl methanoate; 3-Phenylprop-2-enyl formate
09.086	2395	353	10058-432	2-Метил-1-фенил-2-пропил формат	2-Methyl-1-phenyl-2-propyl formate	alpha,alpha-dimethylphenethyl formate; 2-Benzyl-2-propyl formate; Benzyl dimethyl carbonyl formate; Dimethyl benzyl carbonyl formate;
09.087	2101	354	122-91-8	п-Анисилформат	p-Anisyl formate	Anisyl alcohol, formate; Anisyl methanoate; p-Methoxybenzyl methanoate; Benzenemethanol, 4-methoxy-, formate; 4-Methoxybenzyl formate
09.088	2473	355	10031-966	4-Эвгенил формат	4-Eugenyl formate	Eugenol formate; 4-Allyl-2-methoxyphenyl formate
09.089	2474	356	7774-96-1	Изоэвгенил формат	Isoeugenyl formate	4-Methoxy-4-phenyl formate; 2-Methoxy-4-propenylphenyl formate; 2-Methoxy-4-(prop-1-enyl)phenyl formate
09.090	2066	357	7493-79-0	альфа-Пентилциннамил формат	alpha-Pentylcinnamyl formate	alpha-n-Amyl-phenylacryl formate; alpha-Pentylcinnamyl formate; 2-Pentyl-3-phenylprop-2-enyl formate
09.091	2199	363	5454-28-4	Бутил гептаноат	Butyl heptanoate	Butyl heptylate; Butyl oenanthate;
09.092	2200	364	7779-80-8	Изобутил гептаноат	Isobutyl heptanoate	Isobutyl heptylate; Butyl iso heptanoate; Isobutyl heptoate; 2-Methyl-1-propyl heptanoate; 2-Methylpropyl heptanoate
09.093	2437	365	106-30-9	Этил гептаноат	Ethyl heptanoate	Ethyl heptylate; Ethyl heptoate; Ethyl oenanthate; Oenanthic ester;
09.094	2810	366	5132-75-2	Октил гептаноат	Octyl heptanoate	Octyl heptylate; Octyl oenanthate;
09.095	2948	367	7778-87-2	Пропил гептаноат	Propyl heptanoate	Propyl heptylate; Propyl heptoate; Propyl oenanthate;
09.096	2705	368	106-73-0	Метил гептаноат	Methyl heptanoate	Methyl heptoate; Methyl oenanthate;
09.097	2031	369	142-19-8	Аллил гептаноат	Allyl heptanoate	Allyl heptylate; Allyl heptoate; Allyl enanthate; Allyl oenanthate;
09.098	2073	370	7493-82-5	Пентил гептаноат	Pentyl heptanoate	Amyl heptanoate; Amyl heptylate; Amyl heptoate; Amyl oenanthate,;
09.099	2441	375	106-33-2	Этил додеcanoат	Ethyl dodecanoate	Ethyl laurate; Ethyl dodecylate;
09.100	2206	376	106-18-3	Бутил додеcanoат	Butyl dodecanoate	Butyl laurate; Butyl dodecylate;
09.101	2715	377	111-82-0	Метил додеcanoат	Methyldodecanoate	Methyl laurate; Methyl dodecylate;
09.102	3076	378	10024-574	п-Толил додеcanoат	p-Tolyl dodecanoate	p-Cresyl dodecanoate; p-Cresyl laurate; p-Methylphenyl dodecanoate; 4-Methylphenyl dodecanoate
09.103	2077	379	6309-51-9	3-Метилбутил додеcanoат	3-Methylbutyl dodecanoate	Isoamyl laurate; Isoamyl dodecanoate; Amyl iso laurate; Pentyl iso laurate; Isopentyl laurate,;
09.104	2445	385	124-06-1	Этилтетра додеcanoат	Ethyl tetradecanoate	Ethyl myristate;
09.105	3556	386	110-27-0	Изопропил	Isopropyl	Isopropyl myristate;

				тетрадеканоат	tetradecanoate	
09.106	2722	387	124-10-7	Метил тетрадеканоат	Methyl tetradecanoate	Methyl myristate;
09.107	2447	388	123-29-5	Этил нонаноат	Ethyl nonanoate	Ethyl pelargonate; Ethyl nonylate;
09.108	2724	389	1731-84-6	Метил нонаноат	Methyl nonanoate	Methyl nonylate; Methyl pelargonate;
09.109	2036	390	7493-72-3	Аллил нонаноат	Allyl nonanoate	2-Propenyl nonanoate; Allyl pelargonate; Allyl nonylate; 2-Propenyl pelargonate;
09.110	2078	391	7779-70-6	3-Метилбутил нонаноат	3-Methylbutyl nonanoate	Isoamyl pelargonate; Pentyl iso nonanoate; Isopentyl nonanoate; Amyl iso nonanoate; Isopentyl nonylate; Isoamyl nonylate;
09.111	2449	392	106-32-1	Этил октаноат	Ethyl octanoate	Ethyl caprylate; Ethyl octylate;
09.112	2079	393	638-25-5	Пентил октаноат	Pentyl octanoate	Amyl octanoate; Amyl caprylate; Amyl octylate; Pentyl octylate,;
09.113	2575	394	1117-55-1	Гексил октаноат	Hexyl octanoate	Hexyl caprylate; Hexyl octylate;
09.114	2811	395	2306-88-9	Октил октаноат	Octyl octanoate	Octyl octylate;
09.115	2790	396	7786-48-3	Нонил октаноат	Nonyl octanoate	Nonyl octylate;
09.116	2644	397	10024-643	Линалил октаноат	Linalyl octanoate	3,7-Dimethyl-1,6-octadien-3-yl octanoate; Linalyl caprylate; Linalyl octoate; Linalyl octylate; 1,5-Dimethyl-1-vinylhex-4-enyl octanoate
09.117	2728	398	111-11-5	Метил октаноат	Methyl octanoate	Methyl octylate;
09.118	2553	399	4265-97-8	Гептил октаноат	Heptyl octanoate	Heptyl caprylate;
09.119	2037	400	4230-97-1	Аллил октаноат	Allyl octanoate	Allyl caprylate; 2-Propenyl octanoate; 2-Propenyl octylate; Allyl octylate;
09.120	2080	401	2035-99-6	3-Метилбутил октаноат	3-Methylbutyl octanoate	Isoamyl octanoate; Isopentyl octanoate; Pentyl iso octanoate; Isoamyl caprylate; Isopentyl octylate;
09.121	2456	402	105-37-3	Этил пропионат	Ethyl propionate	Ethyl propanoate; Propionic ether;
09.122	2958	403	106-36-5	Пропил пропионат	Propyl propionate	Propyl propanoate; n-Propyl propionate;
09.123	2959	404	637-78-5	Изопропил пропионат	Isopropylpropionate	Propyl iso propionate;
09.124	2211	405	590-01-2	Бутил пропионат	Butyl propionate	Butyl propanoate;
09.125	2212	406	540-42-1	Изобутил пропионат	Isobutyl propionate	Butyl iso propionate; Isobutyl propanoate; 2-Methylpropyl propanoate
09.126	2813	407	142-60-9	Октил пропионат	Octyl propionate	Octyl propanoate;
09.127	2369	408	5454-19-3	Децил пропионат	Decyl propionate	Decyl propanoate; 1-Propionoxy decane;
09.128	2517	409	105-90-8	Геранил пропионат	Geranyl propionate	trans-3,7-Dimethyl-2,6-octadien-1-yl propanoate; 2,6-Dimethyl octadien-6-yl-8-n-propionate; 3,7-Dimethylocta-2(trans), 6-dienyl propanoate
09.129	2316	410	141-14-0	Цитронеллил пропионат	Citronellyl propionate	3,7-Dimethyloct-6-enyl propanoate
09.130	2645	411	144-39-8	Линалил пропионат	Linalyl propionate	3,7-Dimethyl-1,6-octadien-3-yl propanoate; 3,7-Dimethyl-1,6-octadien-3-yl propionate;

						1,5-Dimethyl-1-vinylhex-4-enyl propanoate
09.131	2163	412	2756-56-1	Изоборнил пропионат	Isobornyl propionate	1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl propanoate
09.132	2150	413	122-63-4	Бензил пропионат	Benzyl propionate	Benzyl propanoate; Benzylpropanoate;
09.133	2301	414	103-56-0	Циннамил пропионат	Cinnamyl propionate	3-Phenyl-2-propen-1-yl propanoate; gamma-Phenylallyl propionate; 3-Phenylprop-2-enyl propanoate
09.134	2742	415	554-12-1	Метил пропионат	Methyl propionate	Methyl propanoate;
09.135		416	624-54-4	Пентил пропионат	Pentyl propionate	Pentyl propanoate; Amyl propionate;
09.136	2082	417	105-68-0	3-Метилбутил пропионат	3-Methylbutyl propionate	Isoamyl propionate; Isopentyl propionate; Isopentyl propanate; Isoamyl propanoate,;
09.137	2867	418	122-70-3	Фенетил пропионат	Phenethyl propionate	Phenylethyl propionate; 2-Phenylethyl propanoate; Benzylcarbonyl propionate;
09.138	2897	419	122-74-7	3-Фенилпропил пропионат	3-Phenylpropyl propionate	Phenylpropyl propionate; Hydrocinnamyl propionate; beta-Phenylpropyl propanoate; 3-Phenylpropyl propanoate;
09.139	2576	420	2445-76-3	Гексил пропионат	Hexyl propionate	Hexyl propanoate;
09.140	2354	421	6222-35-1	Циклогексил пропионат	Cyclohexyl propionate	
09.141	2986	422	105-89-5	Родинил пропионат	Rhodinyl propionate	alpha-Citronellyl propionate; 3,7-Dimethyloct-7-enyl propanoate
09.142	3053	423	80-27-3	Терпинил пропионат	Terpinyl propionate	p-Menthanyl propionate (mixed isomers - according to FEMA); p-Menth-1-en-8-yl propionate; p-Menth-1-en-8-yl propanoate
09.143	2251	424	97-45-0	Карвил пропионат	Carvyl propionate	l-Carveol propionate; p-Mentha-6,8-dien-2-yl propionate; p-Mentha-6,8-dien-2-yl propanoate
09.144	2689	425	120-45-6	1-Фенетил пропионат	1-Phenethyl propionate	alpha-Methylbenzyl propionate; 1-Phenyl-1-ethyl propionate; Methyl phenylcarbonyl propionate;
09.145	2102	426	7549-33-9	п-Анисилпропионат	p-Anisyl propionate	Benzenemethanol, 4-methoxy-, propionate; 4-Methoxybenzyl propanoate
09.146	2044	441	7493-76-7	Аллил ундец-10-еноат	Allyl undec-10enoate	Allyl undecylenate; 2-Propenyl 10-undecenoate; Allyl hendecenoate; Allyl undecylenoate.;
09.147	2462	465	539-82-2	Этил валерат	Ethyl valerate	Ethyl pentanoate; Ethyl valerianate;
09.148	2217	466	591-68-4	Бутил валерат	Butyl valerate	Butyl valerianate; Butyl pentanoate;
09.149		467	2173-56-0	Пентил валерат	Pentyl valerate	Amyl pentanoate; Amyl valerate;
09.150	4123	468	10402-478	Геранил валерат	Geranyl valerate	Geranyl pentanoate; 2,6-Dimethyl-2,6-octadiene-8-yl pentanoate; 3,7-Dimethylocta-2(trans),6-dienyl pentanoate
09.151	2317	469	7540-53-6	Цитронеллил валерат	Citronellyl valerate	3,7-Dimethyl-6-octen-1-yl pentanoate; 3,7-Dimethyloct-6-enyl pentanoate
09.152		470	10361-394	Бензил валерат	Benzyl valerate	Benzyl valeriate; Benzyl pentanoate; Phenyl methyl pentanoate;

09.153	2164	471	7549-41-9	Борнил валерат	Bornyl valerate	Bornyl pentanoate; Bornyl valerianate; Bornyl n-pentanoate; endo-2-Camphanyl valerate; endo-2-Bornyl valerate; 1,7,7-Trimethyl-bicyclo[2.2.1]hept-2-yl pentanoate
09.154	4156	472	89-47-4	Ментил валерат	Menthyl valerate	Menthyl pentanoate; p-Menthan-3-yl pentanoate
09.156	2726	479	111-80-8	Метил2-нониноат	Methyl 2-nonynoate	Methyl octine carbonate; Methyl octyne carbonate;
09.157	2448	480	10031-922	Этил 2-нониноат	Ethyl 2-nonynoate	Ethyl octyne carbonate; Ethyl octyne carboxylate; Ethyl non-2-ynoate; Ethyl hexyl propiolate;
09.158	2729	481	111-12-6	Метил 2-октиноат	Methyl 2-octynoate	Methyl heptine carbonate; Methyl heptyne carbonate; Methyl oct-2-ynoate; Methyl pentylpropiolate;
09.159	2068	497	638-49-3	Пентил формат	Pentyl formate	Amyl formate; Amyl formiat; Amyl methanoate; n-Pentyl methanoate;
09.160	2353	498	4351-54-6	Циклогексил формат	Cyclohexyl formate	
09.161	2570	499	629-33-4	Гексил формат	Hexyl formate	n-Hexyl formate; Hexyl methanoate; Formic acid hexyl ester;
09.162	2069	500	110-45-2	3-Метилбутил формат	3-Methylbutyl formate	Isoamyl formate; Isopentyl formate; Amyl iso formate; Pentyl iso formate; Isopentyl methanoate; Amyl iso methanoate; Isoamyl methanoate;
09.163	2196	501	592-84-7	Бутил формат	Butyl formate	Butyl methanoate;
09.164	2197	502	542-55-2	Изобутил формат	Isobutyl formate	Tetryl formate; Butyl iso formate; Isobutyl methanoate; 2-Methyl-1-propyl formate; 2-Methylpropyl formate
09.165	2944	503	625-55-8	Изопропил формат	Isopropyl formate	Propyl iso formate; Propyl iso Methanoate; Isopropyl methanoate;
09.166	2549	504	5870-93-9	Гептил бутират	Heptyl butyrate	Heptyl butanoate;
09.167	2774	505	999-40-6	Нерил бутират	Neryl butyrate	cis-3,7-Dimethyl-2,6-octadien-1-yl butanoate; 3,7-Dimethyl-2(cis), 6-octadienyl butanoate
09.168	2861	506	103-52-6	Фенетил бутират	Phenethyl butyrate	beta-Phenethyl n-butanoate; 2-Phenylethyl butanoate; 2-Phenylethyl butyrate; Benzylcarbinylyl butyrate;
09.169	2777	509	105-91-9	Нерил пропионат	Neryl propionate	cis-3,7-Dimethyl-2,6-octadien-1-yl propionate; 3,7-Dimethyl-2(cis), 6-octadienyl propanoate
09.171		527	77-54-3	Цедрил ацетат	Cedryl acetate	2,6,6,8-Tetramethyl-tricyclo[5.3.1.0(1.5)]undecan-8-yl acetate
09.174	3687	552	613-70-7	2-Метоксифенил ацетат	2-Methoxyphenyl acetate	Guaiacyl acetate; 1-Acetoxy-2-methoxybenzene; Acetyl guaiacol; o-Methoxyphenyl acetate;
09.176	2162	565	1200-67-5	Изоборнил формат	Isobornyl formate	Isobornyl methanoate; exo-2-bornyl formate; exo-2-Camphanyl formate; 1,7,7-

						Trimethylbicyclo[2.2.1]hept-2-yl formate
09.177	2678	572	7149-29-3	2-Метилаллил бутират	2-Methylallyl butyrate	2-Methyl-2-propen-1-yl butyrate; 2-Methylallyl butanoate; Isopropenyl carbinyl-n-butyrate; Methylallyl butyrate; 2-Methylprop-2-enyl butanoate
09.178	2684	573	93-92-5	1-Фенетил ацетат	1-Phenethyl acetate	Styrallyl acetate; alpha-Phenylethyl acetate; methyl phenylcarbinyl acetate; sec-Phenylethyl acetate; 1-Phenylethyl acetate
09.179	2688	574	7775-38-4	1-Фенетил формат	1-Phenethyl formate	alpha-Methylbenzyl formate; 1-Phenyl-1-ethyl formate; Alpha-Methylbenzyl methanoate;
09.180		581	112-39-0	Метил гексадеcanoат	Methyl hexadecanoate	Methyl palmitate;
09.181	2709	583	13894-63-8	Метилгекс-2-еноат	Methyl hex-2-enoate	Methyl $\beta$ -Propylacrylate;
09.182	2752	588	624-24-8	Метил валерат	Methyl valerate	Methyl pentanoate; Methyl valerianate;
09.185		607	592-20-1	2-Оксопропил ацетат	2-Охорpropyl acetate	Acetonyl acetate;
09.186	3526	608	4906-24-5	втор-Бутан-3-онил ацетат	sec-Butan-3-onyl acetate	2-Acetoxy-3-butanone; AMC acetate; Acetoin acetate; Acetyl methyl carbinyl acetate; 2-Butanon-3-yl acetate; 1-Methyl-2-oxopropyl acetate
09.188		611	5933-87-9	Пентил деканоат	Pentyl decanoate	Amyl caprate; Amyl caprinate;
09.189	2424	628	10031-86-4	1-Фенилпропил бутират	1-Phenylpropyl butyrate	alpha-Ethylbenzyl butyrate; Ethyl phenyl carbinyl butyrate; 1-Phenyl-1-propyl butyrate; alpha-Phenylpropyl butyrate;
09.191	3342		2396-83-0	Этил гекс-3-еноат	Ethyl hex-3-enoate	
09.192	2450	633	111-62-6	Этил олеат	Ethyl oleate	Ethyl cis-9-Octadecenoate; Ethyl octadec-9-enoate
09.193	2451	634	628-97-7	Этил гексадеcanoат	Ethyl hexadecanoate	Ethyl palmitate; Ethyl cetylate;
09.194	2459	635	2396-84-1	Этил гекса-2,4- диеноат	Ethyl hexa-2,4-dienoate	Ethyl sorbate; Ethyl 2,4-hexadienoate;
09.196	2564	643	10094-40-3	Гекс-2-енил ацетат	Hex-2-enyl acetate	trans-2-Hexenyl acetate; 2-Hexen-1-yl acetate; 2-Hexenyl ethanoate;
09.197	3171	644	3681-71-8	Гекс-3(цис)-енил ацетат	Hex-3(cis)-enyl acetate	cis-3-Hexen-1-yl acetate; cis-3-hexenyl acetate; cis-3-Hexenyl ethanoate;
09.198		648	2050-09-1	Изопентил валерат	Isopentyl valerate	Isoamyl pentanoate; 3-Methylbutyl pentanoate
09.200	2882	671	10415-88-0	1-Метил-3- фенилпропил ацетат	1-Methyl-3-phenylpropyl acetate	Methyl phenyl ethyl carbinyl acetate; 4-Phenyl-2-butyl acetate; Phenylethyl methyl carbinyl acetate;
09.201		673	7460-74-4	Фенетил валерат	Phenethyl valerate	Phenethyl pentanoate;
09.202		679	141-06-0	Пропил валерат	Propyl valerate	Propyl pentanoate; Propyl valerate;
09.204		711	544-35-4	Этил октадека-9,12- диеноат	Ethyl octadeca-9,12-dienoate	Ethyl linoleate;

09.205		712	1191-41-9	Этил октадека-9,12,15-триеноат	Ethyl octadeca-9,12,15-trienoate	Ethyl linolenate;
09.208		741	142-77-8	Бутил олеат	Butyl oleate	Butyl octadec-9-enoate
09.209		742	589-75-3	Бутил октаноат	Butyl octanoate	Butyl caprylate;
09.210	3490	745	111-61-5	Этил октадеканоат	Ethyl octadecanoate	Ethyl stearate;
09.211	2223	747	60-01-5	Глицерил трибутират	Glyceryl tributyrate	Tributylin; Glycerol tributyrate; Butylin;
09.212	2776	2060	2142-94-1	Нерил формат	Neryl formate	cis-3,7-Dimethyl-2,6-octadien-1-yl formate; cis-3,7-Dimethyl-2,6-octadien-1-yl methanoate; 3,7-Dimethyl-2(cis), 6-octadienyl formate
09.213	2773	2061	141-12-8	Нерил ацетат	Neryl acetate	cis-3,7-Dimethyl-2,6-octadien-1-yl acetate; cis-3,7-Dimethyl-2,6-octadien-1-yl ethanoate; 3,7-Dimethyl-2(cis), 6-octadienyl acetate
09.214	3096	2062	112-19-6	Ундец-10-енил ацетат	Undec-10-enyl acetate	Acetate C-11; 10-Hendecyl acetate; Undecylenic acetate; Undecenyl acetate;
09.215	2250	2063	97-42-7	Карвил ацетат	Carvyl acetate	Carveyl acetate; p-Mentha-6,8-dien-2-yl acetate; p-Mentha-6,8-dien-2-yl acetate
09.216	2380	2064	20777-495	Дигидрокарвил ацетат	Dihydrocarvyl acetate	6-Methyl-3-(1-methylvinyl)cyclohexyl acetate; Dihydrocarveyl acetate; 8-p-Menthen-2-yl acetate; 6-Methyl-3-isopropenylcyclohexenyl acetate; p-Menth-8-en-2-yl acetate
09.218	2160	2066	125-12-2	Изоборнил ацетат	Isobornyl acetate	Bornyl iso acetate; exo-2-Camphanlyl acetate; Isobornyl ethanoate; exo-2-Bornyl acetate; 1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate
09.219	2965	2067	57576-097	Изопулегил ацетат	Isopulegyl acetate	5-Methyl-2-isopropenylcyclohexyl acetate; Pulegol iso acetate; 1-Methyl-4-isopropenylcyclohexan-3-yl acetate; p-Menth-8-en-3-yl acetate
09.220	2912	2068	326-61-4	Пиперонил ацетат	Piperonyl acetate	Heliotropyl acetate; 3,4-Methylene dioxybenzyl acetate; 1,3-Benzodioxole-5-methanol,acetate; 3,4-Methylenedioxybenzyl acetate
09.225	2783	2075	1322-17-4	1,3-Нонандиол ацетат	1,3-Nonanediol acetate	1,3-Nonanediol acetate (mixed esters); Acetoxy nonyl acetate (mixed esters); Jasmonyl; Nonan-1,3-diyl acetate
09.227	2392	2077	151-05-3	1,1-Диметил-2-фенетил ацетат	1,1-Dimethyl-2-phenethyl acetate	2-Methyl-1-phenyl-2-propyl acetate; Benzyl dimethyl carbinylyl acetate; Dimethylbenzyl carbinylyl acetate;
09.228	3072	2078	533-18-6	о-Толилацетат	o-Tolyl acetate	Acetyl o-Cresol; o-Cresol acetate; o-Cresyl acetate; o-Cresylic acetate; 2-Methylphenyl acetate
09.230	2351	2082	1551-44-6	Циклогексил бутират	Cyclohexyl butyrate	Cyclohexyl butanoate;
09.231	2686	2083	3460-44-4	1-Фенетил бутират	1-Phenethyl butyrate	alpha-Methylbenzyl butyrate; Methyl phenyl carbinylyl butyrate; Styrallyl butyrate; 1-



						Phenyl-1-ethyl butanoate; 1-Phenylethyl butyrate
09.232	2394	2084	10094-345	1,1-Диметил-2-фенетил бутират	1,1-Dimethyl-2-phenethyl butyrate	2-Methyl-1-phenyl-2-propyl butyrate; Benzyl dimethyl carbinyl butyrate; alpha,alpha-dimethylphenethyl butyrate;
09.233	2040	2094	2408-20-0	Аллил пропионат	Allyl propionate	2-Propenyl propanoate; Allyl propanoate;
09.234	2725	2099	111-79-5	Метил нон-2-еноат	Methyl non-2-enoate	Methyl nonylenate; Methyl nonylenoate;
09.235	2194	2100	7492-45-7	Бутил дец-2-еноат	Butyl dec-2-enoate	
09.236	2750	2101	5760-50-9	Метил ундец-9-еноат	Methyl undec-9-enoate	Methyl undecylenate;
09.237	2461	10634	692-86-4	Этил ундец-10-еноат	Ethyl undec-10-enoate	Ethyl undecylenate;
09.238	2216	2103	109-42-2	Бутил ундец-10-еноат	Butyl undec-10-enoate	Butyl undecylenate;
09.239	2751	2111	10522-186	Метил 2-ундециноат	Methyl 2-undecynoate	Methyl decyne carbonate; Methyl decine carbonate; Methyl undec-2-ynoate; Methyl octyl propiolate;
09.240	3353	2153	33467-731	Гекс-3(цис)-енил формат	Hex-3(cis)-enyl formate	beta,gamma-Hexenyl methanoate; (Z)-3-hexenol formate; Leaf alcohol formate; 3-Hexenyl methanoate;
09.244	2032	2181	123-68-2	Аллил гексаноат	Allyl hexanoate	Allyl caproate; 2-Propenyl hexanoate;
09.246	2214	2189	123-95-5	Бутил октадекан оат	Butyl octadecanoate	Butyl stearate;
09.247	4072	2222	20474-935	Аллил крононат	Allyl crotonate	Allyl but-2(trans)-enoate
09.248	3486	2244	623-70-1	Этил транс-2-бутеноат	Ethyl trans-2-butenoate	Ethyl crotonate;
09.249	3197	2276	68922-112	1-Метил-2-фенетил бутират	1-Methyl-2-phenethyl butyrate	1-Phenyl-2-propyl butyrate; alpha-Methylphenethyl butyrate;
09.250		2303	10588-100	Изобутил валерат	Isobutyl valerate	Isobutyl pentanoate; 2-Methylpropyl pentanoate
09.251		2304	110-42-9	Метил деканоат	Methyl decanoate	
09.253		2308	528-79-0	2-Изопропил-5-метилфенил ацетат	2-Isopropyl-5-methylphenyl acetate	Thymyl acetate; Acetyl thymol;
09.254	3583	2347	4864-61-3	3-Октил ацетат	3-Octyl acetate	1-Ethyl hexyl acetate; n-Amyl ethyl carbinyl acetate; 1-Ethylhexyl acetate
09.256		2351	6513-03-7	Пропилно наноат	Propyl nonanoate	Propyl pelargonate;
09.258	2524	2525	3891-59-6	Глюкозы пентаацетат	Glucose pentaacetate	1,2,3,4,6-Pentaacetyl-alpha-d-Glucose; 1,2,3,4,6-Pentaacetyl-beta-d-Glucose; alpha-Pentaacetyl-dextro-Glucose; 1,2,3,4,6-Pentaacetyl-alpha-d-glucose and 1,2,3,4,6-pentaacetyl-beta-d-glucose
09.260	3148	10574	3025-30-7	Этилдека-2(цис),4(транс)-диеноат	Ethyldeca-2(cis),4(trans)-dienoate	Ethyl (2E,4Z)-decadienoate;
09.261	3221	10882	6290-37-5	2-Фенетил	2-Phenethyl hexanoate	2-Phenylethyl caproate; 2-Phenylethyl

				гексаноат		hexanoate; Benzylcarbinyl caproate; Benzylcarbinyl hexanoate;
09.262	3222	10884	5457-70-5	Фенетил октаноат	Phenethyl octanoate	2-Phenylethyl caprylate; Benzylcarbinyl octanoate;
09.263	3286	10657	139-45-7	Глицерил трипропионат	Glyceryl tripropionate	Propionic acid, triglyceride; Tripropionin;
09.264	3332	10525	84642-615	втор-Бутан-3-онил бутират	sec-Butan-3-onyl butyrate	Acetoxy butyrate; AMC butyrate; 1-Methyl-2-oxopropyl butanoate
09.265	3344	10619	34495-711	Этил окт-4-еноат	Ethyl oct-4-enoate	
09.266	3354	10688	19089-920	Гексил 2-бутеноат	Hexyl 2-butenate	
09.267	3364	10801	2396-78-3	Метил гекс-3-еноат	Methyl hex-3-enoate	O-Hexylhexanolide;
09.268	3367	10834	21063-718	Метил окт-4(цис)- еноат	Methyl oct-4(cis)-enoate	
09.269	3390	11769	13851-111	Фенхил ацетат	Fenchyl acetate	1,3,3-Trimethyl-2-norbornanyl acetate; 1,3,3-trimethyl-bicyclo[2.2.1]heptan-2-yl acetate
09.270	3402	11859	16491-364	Гекс-3-енил бутират	Hex-3-enyl butyrate	$\beta$ ,gamma-Hexenyl n-butyrate; cis-3-Hexenyl-butanoate;
09.271	3403	11779	31501-118	Гекс-3-енил гексаноат	Hex-3-enyl hexanoate	3-Hexenyl caproate; cis-3-Hexenyl caproate;
09.272	3405	10858	72928-520	Миртенил формат	Myrtenyl formate	2-Pinen-10-ol formate; (6,6-Dimethylbicyclo[3.3.1]hept-2-en-2-yl)methyl formate
09.273	3432	10706	589-66-2	Изобутил кратоноат	Isobutyl crotonate	2-Methylpropyl but-2(trans)-enoate
09.274	3492	10633	627-90-7	Этил ундеканоат	Ethyl undecanoate	Ethyl undecylate, Ethyl hendecanoate;
09.275	3493	10662	1576-77-8	Гепт-3(транс)-енил ацетат	Hept-3(trans)-enyl acetate	
09.276	3516	11906	3913-80-2	Окт-2-енил ацетат	Oct-2-enyl acetate	2-Octen-1-ol,acetate,(E)-;
09.277	3517	11907	84642-604	Окт-2(транс)-енил бутират	Oct-2(trans)-enyl butyrate	trans-2-Octenyl butyrate;
09.278	3561	10742	15111-963	п-Мента-1,8-диен- 7-ил ацетат	p-Mentha-1,8-dien-7-yl acetate	Perilla acetate; Perrilyl acetate; Perillyl acetate; Acetic acid, perillyl ester; Menthadien-7-carbinyl acetate;
09.280	3579	11927	67715-815	Нонан-1,4-диил диацетат	Nonane-1,4-diyl diacetate	Nonanediol-1,4 acetate;
09.281	3582	11716	2442-10-6	Окт-1-ен-3-ил ацетат	Oct-1-en-3-yl acetate	Octenyl acetate; Amyl vinyl carbinyl acetate; 3-Acetoxyoctene; Amyl crotonyl acetate; Pentyl crotonyl acetate; 1-Vinylhexyl acetate
09.282	3612		16491-546	Окт-1-ен-3-ил бутират	Oct-1-en-3yl butyrate	1-Vinylhexyl butyrate
09.283	3641	10577	7367-88-6	Этил дес-2-еноат	Ethyl dec-2-enoate	
09.284	3642	10578	76649-166	Этил дес-4-еноат	Ethyl dec-4-enoate	
09.285	3643	10617	7367-82-0	Этил окт-2(транс)- еноат	Ethyl oct-2(trans)-enoate	

09.286	3644	10762	624-41-9	2-Метилбутил ацетат	2-Methylbutyl acetate	
09.287	3648	10889	28316-623	Пропил дека-2,4-диеноат	Propyl deca-2,4-dienoate	
09.288	3652		3572-06-3	4-(4-Ацетоксифенил)бутан-2-он	4-(4-Acetoxyphenyl)butan-2-one	
09.289	3657		36789-590	альфа-Камфолен ацетат	alpha-Campholene acetate	1-Acetoxy-2-(2,2,3)-trimethyl-3-cyclopentenyl ethane; 2-(2,2,3-Trimethylcyclopent-3-enyl)ethyl acetate
09.290	3682		69925-333	Этил окта-4,7-диеноат	Ethyl octa-4,7-dienoate	Ethyl Z 4,7-octadienoate;
09.291	3689		61444-380	Гекс-3-енил гекс-3-еноат	Hex-3-enyl hex-3-enoate	Z-3-Hexenyl Z-3-hexenoate;
09.292	3692		33855-571	Гексил-2-гексеноат	Hexyl -2-hexenoate	Hexyl E-2-hexenoate;
09.293	3701		52789-738	1-Ацетокси-1-ацетилциклогексан	1-Acetoxy-1-acetylcyclohexane	Methyl 1-acetoxycyclohexyl; 1-Acetylcyclohexyl acetate;
09.294	3702		17373-932	2-Метилбензил ацет	2-Methylbenzyl acetate	
09.298	3710		13481-873	Метил нон-3-еноат	Methyl non-3-enoate	
09.299	3712	11800	7367-81-9	Метил окт-2(транс)-еноат	Methyl oct-2(trans)-enoate	Methyl E-2-octenoate;
09.300	3714		689-89-4	Метил гекса-2,4-диеноат	Methyl hexa-2,4-dienoate	Methyl sorbate; Methyl 2,4-hexadienoate; Methyl E,E-2,4 Hexadienoate;
09.301	3733		59558-235	п-Толил октаноат	p-Tolyl octanoate	o-Cresyl octanoate; p-Methylphenyl octanoate; p-Cresyl caprylate; 4-Methylphenyl octanoate
09.302	3765	10887	1079-01-2	Миртенил ацетат	Myrtenyl acetate	2-Pinen-10-ol acetate; (6,6-Dimethylbicyclo[3.3.1]hept-2-en-2-yl)methyl acetate
09.303	4126	10664	25359670-2	Гепт-2-енил изовалерат	Hept-2-enyl isovalerate	Hept-2-enyl 3-methylbutanoate
09.304		10806		втор-Гептил изовалерат	sec-Heptyl isovalerate	1-Methylhexyl 3-methylbutanoate
09.305	3844	10702	22030-199	бета-Ионил ацетат	beta-Ionyl acetate	beta-Ionol acetate; 3-Buten-2-ol, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, acetate; 4-(2,2,6-Trimethylcyclohex-1-enyl)but-3-en-2-yl acetate
09.306		10752		2-Метоксициннамил ацетат	2-Methoxycinnamyl acetate	3-(2-Methoxyphenyl)prop-2-enyl acetate
09.307		10766	нет CAS	2-Метилбутил додеcanoат	2-Methylbutyl dodecanoate	
09.312	2041	2182	7493-75-6	Аллил гекса-2,4-диеноат	Allyl hexa-2,4-dienoate	Allyl Sorbate;
09.313		10523	56423-406	Бензил 2-	Benzyl 2-	

				метилбутират	methylbutyrate	
09.316	4026	10521	6938-45-0	Бензил гексаноат	Benzyl hexanoate	
09.319	3907		13109-701	Борнил бутират	Bornyl butyrate	Bornyl butanoate; Butyric acid, 2-bornyl ester; 1,7,7-Trimethyl-bicyclo[2.2.1]heptan-2-yl butanoate
09.323		10527	105-46-4	втор-Бутил ацетат	sec-Butyl acetate	But-2-yl acetate; 1-Methylpropyl acetate
09.325		10528	819-97-6	втор-Бутил бутират	sec-Butyl butyrate	But-2-yl butyrate; 1-Methylpropyl butanoate
09.326		10529	28369-246	Бутил дека-2,4-диеноат	Butyl deca-2,4-dienoate	
09.327		10530	30673-360	Бутил деканоат	Butyl decanoate	Butyl caprate;
09.328		10532	589-40-2	втор-Бутил формат	sec-Butyl formate	But-2-yl formate; 1-Methylpropyl formate
09.332		10533	820-00-8	втор-Бутил гексаноат	sec-Butyl hexanoate	But-2-yl caproate; 2-Butyl hexanoate; 1-Methylpropyl hexanoate
09.335		10536	57403-324	Бутил окт-2-еноат	Butyl oct-2-enoate	
09.345		10555	818-04-2	Ди-изопентил сукцинат	Di-isopentyl succinate	Di-isoamyl succinate; Di(3-methylbutyl) succinate; Di-(3-Methylbutyl)butanedioate
09.351		10551	141-05-9	Диэтил малеат	Diethyl maleate	2- Butenedioic acid diethyl ester; Ethyl maleate; Diethyl but-2(cis)-enedioate
09.352		10549	624-17-9	Диэтил нонандиоат	Diethyl nonanedioate	Diethyl azelate;
09.355		10859	20777-495	Нео-Дигидрокарвил ацетат	neo-Dihydrocarvyl acetate	p-Menth-8(9)-en-2-yl acetate
09.358		10899	20780-498	3,7-Диметилноктил ацетат	3,7-Dimethyloctyl acetate	Tetrahydrogeranyl acetate;
09.365		10610	638-10-8	Этил 3-метилкроноат	Ethyl 3-methylcrotonate	Ethyl senecioate; Ethyl 3-methylbut-2(trans)-enoate
09.368		10615	6849-18-9	Этил 4-метилпент-3-еноат	Ethyl 4-methylpent-3-enoate	
09.370		10579	67233-914	Этил дец-9-еноат	Ethyl dec-9-enoate	
09.371	3832	10576	78417-284	Этил дека-2,4,7-триеноат	Ethyl deca-2,4,7-trienoate	Ethyl deca-2,4,7-trienoate; 2,4,7-Decatrienoic acid, ethyl ester;
09.372		10584	28290-906	Этил додец-2-еноат	Ethyl dodec-2-enoate	
09.377		10618	1117-65-3	Этил окт-3-еноат	Ethyl oct-3-enoate	
09.379		10623	2445-93-4	Этил пент-2-еноат	Ethyl pent-2-enoate	
09.380		10622	41114-005	Этил пентадеканоат	Ethyl pentadecanoate	
09.382	4122		68705-635	(Е)-Геранил 2-метилбутират	(E)-Geranyl 2-methylbutyrate	Butanoic acid, 2- methyl-, (2E)- 3,7-dimethyl- 2,6-octadienyl ester; Butanoic acid, 2- methyl-, 3,7- dimethyl- 2,6- octa-dienyl ester, (E) -; Geranyl 2- methylbutanoate
09.383	4044	11829	7785-33-3	Геранил 2-метилкроноат	Geranyl 2-methylcrotonate	Geranyl tiglate; 3,7-Dimethyl-2(trans),6-octadienyl 2-methylbut-2(trans)-enoate
09.385		10661	16939-734	Гепт-2-енил ацетат	Hept-2-enyl acetate	

09.387		10668	50862-129	Гептил 2-метилбутират	Heptyl 2-methylbutyrate	
09.388		10802	5921-82-4	втор-Гептил ацетат	sec-Heptyl acetate	1-Methylhexyl acetate
09.390		10666	6976-72-3	Гептил гексаноат	Heptyl hexanoate	
09.391		10805	6624-58-4	втор-Гептил гексаноат	sec-Heptylhexanoate	1-Methylhexyl hexanoate
09.392		10667	56423-439	Гептил изовалерат	Heptyl isovalerate	Heptyl 3-methylbutanoate
09.394	2564	643	2497-18-9	Гекс-2(транс)-енил ацетат	Hex-2(trans)-enyl acetate	trans-2-Hexenyl acetate; 2-Hexen-1-yl acetate;
09.395	3932	11830	53398-804	Гекс-2(транс)-енил пропионат	Hex-2(trans)-enyl propionate	2-Hexenyl propanoate; (E)-Hex-2-enyl propionate; trans-2-Hexenyl propionate;
09.396	3926		53398-837	Гекс-2-енил бутират	Hex-2-enyl butyrate	
09.397	3927	11858	53398-780	Гекс-2-енил формат	Hex-2-enyl formate	(E)-Hex-2-enyl formate; trans-2-Hexenyl formate;
09.398	3983		16630-550	3-(Метилтио)пропил ацетат	3-(Methylthio)propyl acetate	Hexanoic acid, (2E)-2-hexenyl ester; trans-2-Hexenyl caproate; trans-2-Hexenyl hexanoate '(E)-2-Hexenyl hexanoate
09.399	3930		35154-451	Гекс-2-енил изовалерат	Hex-2-enyl isovalerate	Hex-2-enyl 3-methylbutanoate
09.401	3551	227	2308-18-1	Изопентил ацетоацетат	Isopentyl acetoacetate	3-Methylbutyl acetoacetate; Pentyl 3-Oxobutanoate; Isoamyl Beta-ketobutyrate; 3-Methylbutyl 3-oxobutanoate
09.402	2415	240	141-97-9	Этил ацетоацетат	Ethyl acetoacetate	Ethyl acetylacetate; Ethyl beta-Ketobutyrate; Acetoacetic ester; Ethyl 3-oxobutanoate
09.403	2176	241	591-60-6	Бутил ацетоацетат	Butyl acetoacetate	Butyl 3-ketobutanoate; Butyl 3-Ketobutyrate; Butyl 3-oxobutanoate
09.404	2177	242	7779-75-1	Изобутил ацетоацетат	Isobutyl acetoacetate	Isobutyl-beta-ketobutyrate; Isobutyl-3-oxobutanoate; 2-Methyl-1-propyl acetoacetate; Isobutyl 3-ketobutanoate; 2-Methylpropyl 3-oxobutanoate
09.405	2510	243	10032-005	Геранил ацетоацетат	Geranyl acetoacetate	Geranyl 3-oxobutanoate; Geranyl beta-ketobutyrate; trans-3,7-Dimethyl-2,6-octadien-1-yl acetoacetate; 3,7-Dimethylocta-2(trans),6-dienyl 3-oxobutanoate
09.406	2136	244	5396-89-4	Бензил 3-оксобутират	Benzyl 3-oxobutyrate	Benzyl acetylacetate; Benzyl 3-Oxobutanoate; Benzyl β-Ketobutyrate;
09.407	2869	246	42078-659	2-Фенетил 3-метилкродоноат	2-Phenethyl 3-methylcrotonate	2-Phenylethyl 3-methyl-2-butenolate; 2-Phenethyl senecioate; Phenethyl 3,4-dimethylacrylate; 2-Phenylethyl 3-methylbut-2(trans)-enoate
09.408	2180	247	7779-81-9	Изобутил 2-метилбут-2(цис)-еноат	Isobutyl 2-methylbut-2(cis)-enoate	Isobutyl angelate; Butyl iso angelate; Butyl iso cis-2-methyl-2-butenolate; 2-Methylpropyl 2-methylbut-2(cis)-enoate
09.409	2443	265	7452-79-1	Этил 2-метилбутират	Ethyl 2-methylbutyrate	Ethyl 2-methylbutanoate;

09.410	2029	281	7493-69-8	Аллил 2-этилбутират	Allyl 2-ethylbutyrate	2-Propenyl 2-ethylbutanoate; 2-Propenyl 2-ethylbutyrate;
09.411	2024	283	7493-65-4	Аллил циклогексанбутират	Allyl cyclohexanebutyrate	Allyl 4-cyclohexylbutyrate; 2-Propen-1-yl cyclohexanebutyrate; Allyl hexahydrophenylbutyrate; Allyl cyclohexylbutyrate;
09.412	2694	287	547-63-7	Метил изобутират	Methyl isobutyrate	Methyl dimethylacetate; Methyl-2-methylpropionate; Methyl 2-methylpropanoate
09.413	2428	288	97-62-1	Этил изобутират	Ethyl isobutyrate	Ethyl isobutanoate; Ethyl 2-methylpropanoate; Propanoic acid, 2-methyl-, ethyl ester; Ethyl-2-methylpropanoate
09.414	2936	289	644-49-5	Пропил изобутират	Propyl isobutyrate	Propyl 2-methylpropanoate
09.415	2937	290	617-50-5	Изопропил изобутират	Isopropyl isobutyrate	Propyl iso isobutyrate; Isopropyl 2-methylpropanoate; Propyl iso 2-methylpropanoate; Isopropyl 2-methylpropanoate
09.416	2188	291	97-87-0	Бутил изобутират	Butyl isobutyrate	Butyl-2-methylpropionate; n-Butyl 2-methylpropanoate; Isobutyl 2-methylpropanoate
09.417	2189	292	97-85-8	Изобутил изобутират	Isobutyl isobutyrate	Isobutyl 2-methylpropionate; Butyl iso 2-Methylpropanoate; 2-Methyl-1-propyl 2-methylpropanoate; Isobutyl 2-methylpropanoate; 2-Methylpropyl 2-methylpropanoate
09.418		293	2445-72-9	Пентил изобутират	Pentyl isobutyrate	Amyl isobutyrate; Amyl isobutyrate; Pentyl 2-methylpropanoate
09.419	3507	294	2050-01-3	Изопентил изобутират	Isopentyl isobutyrate	Isopentyl-2-methyl propanoate; 3-Methylbutyl 2-methylpropanoate
09.420	2550	295	2349-13-5	Гептил изобутират	Heptyl isobutyrate	Heptyl 2-methylpropanoate; Heptyl 2-methylpropanoate
09.421	2313	296	97-89-2	Цитронеллил изобутират	Citronellyl isobutyrate	Citronellyl 2-methylpropionate; 3,7-Dimethyl-6-octen-1-yl isobutyrate; 3,7-Dimethyl-6-octen-1-yl 2-methylpropanoate; 3,7-Dimethyloct-6-enyl 2-methylpropanoate
09.423	2640	298	78-35-3	Линалил изобутират	Linalyl isobutyrate	Linalyl 2-methylpropionate; 3,7-Dimethyl-1,6-octadien-3-yl isobutyrate; Linalool isobutyrate; 1,5-Dimethyl-1-vinylhex-4-enyl 2-methylpropanoate
09.424	2775	299	2345-24-6	Нерил изобутират	Neryl isobutyrate	2-cis-3,7-Dimethyl-2,6-octadien-1-yl isobutyrate; 3,7-Dimethyl-2(cis), 6-octadienyl 2-methylpropanoate
09.425	3050	300	7774-65-4	Терпинил 2-метилпропионат	Terpinyl 2-methylpropionate	Terpinyl isobutyrate; 1-Methyl-1-(4-methylcyclohex-3-enyl)ethyl 2-methylpropionate; p-Menth-1-en-8-yl isobutyrate
09.426	2141	301	103-28-6	Бензил изобутират	Benzyl isobutyrate	Benzyl 2-methylpropanoate; Benzyl-2-methylpropanoate

09.427	2862	302	103-48-0	Фенетил изобутират	Phenethyl isobutyrate	2-Phenethyl isobutyrate; 2-Phenylethyl isobutyrate; Benzylcarbonyl 2-methylpropanoate; Phenethyl 2-methylpropanoate; 2-Phenylethyl 2-methylpropanoate
09.428	2893	303	103-58-2	3-Фенилпропил изобутират	3-Phenylpropyl isobutyrate	Hydrocinnamyl isobutyrate; Hydrocinnamyl 2-methylpropanoate; 3-Phenylpropyl 2-methylpropanoate
09.429	3075	304	103-93-5	п-Толил изобутират	p-Tolyl isobutyrate	p-Cresyl isobutyrate; p-Methylphenyl 2-methylpropanoate; p-Methylphenyl isobutyrate; p-Tolyl 2-methylpropanoate; 4-Methylphenyl 2-methylpropanoate
09.430	2913	305	5461-08-5	Пиперонил изобутират	Piperonyl isobutyrate	Piperonyl 2-methylpropionate; 3,4-Methylenedioxybenzyl-2-methylpropanoate; Heliotropyl-2-methylpropanoate; 3,4-Methylenedioxybenzyl 2-methylpropanoate
09.431	2513	306	2345-26-8	Геранил изобутират	Geranyl isobutyrate	Geranyl 2-methylpropionate; trans-3,7-Dimethyl-2,6-octadien-1-yl isobutyrate; 3,7-Dimethylocta-2(trans), 6-dienyl 2-methylpropanoate
09.432	2721	322	2412-80-8	Метил 4- метилвалерат	Methyl 4-methylvalerate	Methyl 4-methylpentanoate; Methyl isocaproate, Methyl isobutyacetate;
09.433	2440	371	97-64-3	Этил лактат	Ethyl lactate	Ethyl alpha-hydroxypropionate; Ethyl 2-hydroxypropanoate
09.434	2205	372	138-22-7	Бутил лактат	Butyl lactate	Butyl alpha-hydroxypropionate; Butyl hydroxypropanoate; Butyl 2-hydroxypropanoate
09.435	2442	373	539-88-8	Этил 4-оксовалерат	Ethyl 4-oxovalerate	Ethyl laevulinate; Ethyl 4-ketovalerate; Ethyl acetylpropanoate; Ethyl laevulate; Ethyl levulinate;
09.436	2207	374	2052-15-5	Бутил 4- оксовалерат	Butyl 4-oxovalerate	Butyl laevulinate; Butyl 4-ketovalerate; Butyl 4-oxopentanoate; Butyl acetylpropionate;
09.439	2374	382	7554-12-3	Диэтил малат	Diethyl malate	Diethylhydroxysuccinate; Ethyl malate; Diethyl 2-hydroxybutanedioate
09.441	2195	384	17373-841	Бутил этил малонат	Butyl ethyl malonate	Ethyl butyl malonate; Butyl ethyl propanedioate
09.442	2457	430	617-35-6	Этил пируват	Ethyl pyruvate	Ethyl acetylformate; Ethyl alpha-Ketopropionate; Ethyl pyrroacemate; Ethyl 2-oxopropanoate
09.443	2083	431	7779-72-8	Изопентил пируват	Isopentyl pyruvate	Isoamyl 2-oxopropanoate; 3-Methylbutyl 2-oxopropanoate
09.444	2377	438	123-25-1	Диэтил сукцинат	Diethyl succinate	Diethyl butanedionate; Diethyl ethanedicarboxylate; Ethyl succinate; Diethyl butanedioate
09.445	2396	439	106-65-0	Диметил сукцинат	Dimethyl succinate	Dimethyl butanedionate; Methyl succinate; Dimethyl butanedioate
09.446	2378	440	87-91-2	Диэтил тартрат	Diethyl tartrate	Diethyl 2,3-dihydroxybutanedioate; Ethyl tartrate; Diethyl 2,3-dihydroxysuccinate;

						Diethyl 2,3-dihydroxybutanedioate
09.447	2463	442	108-64-5	Этил изовалерат	Ethyl isovalerate	Ethyl $\beta$ -methylbutyrate; Ethyl isopentanoate; Ethyl 3-methylbutanoate
09.448	2960	443	557-00-6	Пропил изовалерат	Propyl isovalerate	Propyl isovalerianate; Propyl 3-methylbutanoate; Propyl isopentanoate; Propyl 3-methylbutyrate;
09.449	2218	444	109-19-3	Бутил изовалерат	Butyl isovalerate	Butyl isovalerianate; Butyl isopentanoate; Butyl-3-methylbutanoate
09.450	2961	445	32665-239	Изопропил изовалерат	Isopropyl isovalerate	Propyl iso isovalerate; Isopropyl isovalerianate; Isopropyl isopentanoate; Isopropyl 3-methylbutanoate
09.451	2814	446	7786-58-5	Октил изовалерат	Octyl isovalerate	Octyl isovalerianate; Octyl isopentanoate; Octyl 3-methylbutyrate; Octyl 3-methylbutanoate
09.452	2791	447	7786-47-2	Нонил изовалерат	Nonyl isovalerate	Nonyl isovalerianate; Nonyl isopentanoate; Nonyl 3-methylbutanoate
09.453	2518	448	109-20-6	Геранил изовалерат	Geranyl isovalerate	Geranyl 3-methylbutyrate; trans-3,7-Dimethyl-2,6-octadien-1-yl isopentanoate; 3,7-Dimethylocta-2(trans), 6-dienyl 3-methylbutanoate
09.454	2646	449	1118-27-0	Линалил изовалерат	Linalyl isovalerate	Linalyl 3-methylbutyrate; 3,7-Dimethyl-1,6-octadien-3-yl isovalerate; Linalyl isopentanoate; Linalyl isovalerianate; 1,5-Dimethyl-1-vinylhex-4-enyl 3-methylbutanoate
09.455	2669	450	16409-464	Ментил изовалерат	Menthyl isovalerate	p-Menth-3-yl isovalerate; Menthyl isovalerianate; 1-Isopropyl-4-methylcyclohex-2-yl 3-methylbutanoate; 2-Isopropyl-5-methylcyclohexanyl 3-methylbutanoate
09.456	2165	451	76-50-6	Борнил изовалерат	Bornyl isovalerate	Bornyl 3-methylbutyrate; Bornyl isovalerianate; Bornyl isopentanoate; 1,7,7-Trimethyl-bicyclo[2.2.1]hept-2-yl 3-methylbutanoate
09.457	2166	452	7779-73-9	Изоборнил изовалерат	Isobornyl isovalerate	Isobornyl 3-methylbutyrate; Isobornyl isovalerianate; Bornyl iso isovalerate; Bornyl iso isopentanoate; 1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl 3-methylbutanoate
09.458	2152	453	103-38-8	Бензил изовалерат	Benzyl isovalerate	Benzyl isovalerianate; Benzyl isopentanoate; Benzyl 3-methyl butanoate
09.459	2302	454	140-27-2	Циннамил изовалерат	Cinnamyl isovalerate	Cinnamyl-3-methylbutyrate; Cinnamyl isovalerianate; 3-Phenylallyl isovalerate; 3-Phenyl-2-propen-1-yl 3-methylbutanoate; 3-Phenylprop-2-enyl 3-methylbutanoate
09.460		455	68922-101	Цитронеллил изовалерат	Citronellyl isovalerate	Citronellyl isopentanoate; 3,7-Dimethyloct-6-enyl 3-methylbutanoate
09.461	3054	456	1142-85-4	Терпинил	Terpinyl isovalerate	p-Menth-1-en-8-yl isovalerate; Terpinyl



				изовалерат		isopentanoate; p-Menth-1-en-8-yl 3-methylbutyrate; p-Menth-1-en-8-yl 3-methylbutanoate
09.462	2753	457	556-24-1	Метил изовалерат	Methyl isovalerate	Methyl iso valerianate, Methyl $\beta$ -methyl butyrate; Methyl 3-methylbutanoate
09.463	2085	458	659-70-1	3-Метилбутил 3-метилбутират	3-Methylbutyl 3-methylbutyrate	Isoamyl isopentanoate; Isopentyl isopentanoate; iso amyl $\beta$ -methyl butyrate;
09.464	2355	459	7774-44-9	Циклогексил изовалерат	Cyclohexyl isovalerate	Cyclohexyl isovalerianate; Cyclohexyl isopentanoate; Cyclohexyl-3-methylbutanoate
09.465	2987	460	7778-96-3	Родинил изовалерат	Rhodinyl isovalerate	alpha-Citronellyl isopentanoate; 3,7-Dimethyloct-7-enyl 3-methylbutanoate
09.466	2871	461	140-26-1	Фенетил изовалерат	Phenethyl isovalerate	Phenylethyl isopentanoate; 2-Phenylethyl isovalerate; Benzylcarbonyl 3-methylbutanoate; 2-Phenylethyl 3-methylbutanoate
09.467	2899	462	5452-07-3	3-Фенилпропил изовалерат	3-Phenylpropyl isovalerate	Hydrocinnamyl isovalerate; 3-Phenylpropyl isovaleriate; Hydrocinnamyl 3-methylbutanoate; 3-Phenylpropyl isopentanoate; 3-Phenylpropyl 3-methylbutanoate
09.468	2067	463	7493-80-3	альфа Пентилциннамил изовалерат	alpha-Pentylcinnamyl isovalerate	alpha-Amylcinnamyl 3-methylbutyrate; alpha-n-Amyl-beta-phenylacryl isovalerate; Floxin isovalerate; 2-Pentyl-3-phenylprop-2-enyl 3-methylbutanoate
09.469	2027	474	7493-68-7	Аллил циклогексанвалерат	Allyl cyclohexanevalerate	Allyl 5-cyclohexylpentanoate; Allyl cyclohexanepentanoate; 2-Propen-1-yl cyclohexanevalerate;
09.470	2297	496	103-59-3	Циннамил изобутират	Cinnamyl isobutyrate	Cinnamyl-2-methylpropionate; Cinnamyl 2-methylpropanoate; 3-Phenyl-2-propen-1-yl isobutyrate; 3-Phenylprop-2-enyl 2-methylpropanoate
09.471	2778	508	3915-83-1	Нерил изовалерат	Neryl isovalerate	Neryl beta-methylbutyrate; Neryl 3-methylbutyrate; Neryl isovalerianate; cis-3,7-Dimethyl-2,6-octadien-1-yl isopentanoate; 3,7-Dimethyl-2(cis), 6-octadienyl 3-methylbutanoate
09.472	3369	568	589-59-3	Изобутил изовалерат	Isobutyl isovalerate	2-Methylpropyl 3-methylbutanoate
09.473	2808	593	109-15-9	Октил изобутират	Octyl isobutyrate	Octyl 2-methylpropanoate
09.474	2373	622	109-43-3	Дибутил себацинат	Dibutyl sebacate	Butyl sebacate; Dibutyl decanedioate; Dibutyl 1,8-octanedicarboxylate; Dibutyl decane-1,10-dioate
09.475	2376	623	110-40-7	Диэтил себацинат	Diethyl sebacate	Diethyl 1,8-octanedicarboxylate; Ethyl sebacate; Diethyl decanedioate
09.476	2423	627	94-02-0	Этил 3-фенил-3-оксопропионат	Ethyl 3-phenyl-3-oxopropionate	Ethyl benzoylacetate; Ethyl 3-phenyl-3-oxopropanoate; Ethyl beta-Keto-beta-phenylpropionate;

09.478	3172	646	2349-07-7	Гексил изобутират	Hexyl isobutyrate	Hexyl 2-methylpropanoate
09.480	3753	681	36438-547	о-Толил изобутират	o-Tolyl isobutyrate	2-Methylphenyl 2-methylpropanoate
09.481		710	105-58-8	Диэтилкарбонат	Diethyl carbonate	
09.482	2023	2070	4728-82-9	Аллилциклогексанацетат	Allyl cyclohexaneacetate	Allyl cyclohexylacetate; 2-Propen-1-yl cyclohexaneacetate;
09.483	2719	2085	868-57-5	Метил 2-метилбутират	Methyl 2-methylbutyrate	Methyl methylethylacetate, Methyl-2-methylbutanoate;
09.484	2736	2086	10031-717	1,1-Диметил-3-фенилпропил изобутират	1,1-Dimethyl-3-phenylpropyl isobutyrate	Dimethyl phenethyl carbinyl isobutyrate; 2-Methyl-4-phenyl-2-butyl isobutyrate; 2-Methyl-4-phenyl-2-butyl-2-methylpropanoate; 1,1-Dimethyl-3-phenylpropyl 2-methylpropanoate
09.485	2892	2087	65813-538	2-Фенилпропил изобутират	2-Phenylpropyl isobutyrate	2-Methyl-2-phenylethyl 2-methylpropanoate; 2-Alpha-Phenylpropyl alcohol, isobutyric ester; Hydratropyl isobutyrate; 2-Phenylpropyl 2-methylpropanoate
09.486	2687	2088	7775-39-5	1-Фенетил изобутират	1-Phenethyl isobutyrate	alpha-Methylbenzyl isobutyrate; Styrallyl isobutyrate; Methyl phenyl carbinyl butyrate; 1-Phenyl-1-ethyl 2-Methylpropanoate; Methyl phenylcarbinyl isobutyrate; 1-(2-Phenylethyl) 2-methylpropanoate
09.487	2873	2089	103-60-6	2-Феноксипропил изобутират	2-Phenoxyethyl isobutyrate	2-Phenoxyethyl 2-methylpropanoate; Ethylene glycol monophenyl ether, isobutyrate; Phenylcellosolve isobutyrate; 2-Phenoxyethyl-2-methylpropanoate
09.488	2431	2095	10094-367	Этилциклогексаноат	Ethylcyclohexanepropionate	Ethyl 3-cyclohexylpropionate; Ethyl hexahydrophenylpropionate;
09.489	2045	2098	2835-39-4	Аллил изовалерат	Allyl isovalerate	2-Propenyl isopentanoate; Allyl isopentanoate; Allyl isovalerianate; 2-Propenyl 3-methylbutanoate; Allyl 3-methylbutanoate
09.490	2375	2106	105-53-3	Диэтил малонат	Diethyl malonate	Ethyl malonate; Malonic ester; Ethyl propanedioate; Ethyl methanedicarboxylate; Diethyl propanedioate
09.491	2190	2107	7492-70-8	Бутил-О-бутириллактат	Butyl-O-butyryllactate	Butyl butyrolactate; Butyl-alpha-butyroxy propionate; Butyl 2-(propylcarboxy) propanoate; Butyl 2-butanoyloxypropanoate
09.492	2025	2180	7493-66-5	Аллил циклогексангексаноат	Allyl cyclohexanehexanoate	Allyl 3-cyclohexylhexanoate; Allyl hexahydrophenylhexanoate; Allyl cyclohexanecaproate;
09.493	2043	2183	7493-71-2	Аллил 2-метилкроноат	Allyl 2-methylcrotonate	Allyl tiglate; Allyl-trans-2,3-dimethylacrylate; Allyl-trans-2-methyl-2-butenolate; Allyl-2-methyl-crotonate; Allyl 2-methylbut-2(trans)-enoate
09.494	3330	2184	37526-888	Бензил 2-метилкроноат	Benzyl 2-methylcrotonate	Benzyl tiglate; Benzyl trans-2,3-dimethyl acrylate; Benzyl trans-2-methyl crotonate; Benzyl 2-methylbut-2(trans)-enoate
09.495	2460	2185	5837-78-5	Этил 2-	Ethyl 2-	Ethyl tiglate; Ethyl trans-2,3-dimethyl

				метилкротоноат	methylcrotonate	acrylate; Ethyl (trans)-2-Methylcrotonate; Tiglic acid ethyl ester; Ethyl 2-methylbut-2(trans)-enoate
09.496	2870	2186	55719-852	Фенетил2-метилкротоноат	Phenethyl 2-methylcrotonate	Phenethyl tiglate; 2-Phenylethyl tiglate; 2-Phenylethyl trans-2,3-dimethylacrylate; 2-Phenylethyl trans-2-methylbutenoate; 2-Phenylethyl 2-methylbut-2(trans)-enoate
09.498	2026	2223	2705-87-5	Аллил циклогексанпропионат	Allyl cyclohexanepropionate	Allyl 3-cyclohexylpropionate; 2-Propen-1-yl cyclohexanepropionate; Allyl hexahydrophenylpropionate;
09.499		2224	25415-627	Пентил изовалерат	Pentyl isovalerate	Amyl isopentanoate; Pentyl 3-methylbutyrate; Pentyl-3-methyl butanoate; n-Amyl isovalerianate; Pentyl 3-methylbutanoate
09.501	2416	2241	620-79-1	Этил 2-ацетил-3-фенилпропионат	Ethyl 2-acetyl-3-phenylpropionate	Ethyl 2-benzylacetoacetate; Ethyl 2-acetyldihydrocinnamate; Ethyl alpha-acetylhydrocinnamate;
09.502		2242	71662-276	Этил бутирил лактат	Ethyl butyryl lactate	Ethyl O-butyryllactate; Ethyl 2-(butoxycarbonyl)propanoate
09.505	3498	2344	10032-118	Гекс-3-енил изовалерат	Hex-3-enyl isovalerate	3-Hexenyl isopentanoate; 3-Hexenyl isovalerate; Hex-3-enyl 3-methylbutanoate
09.506	3497	2345	10094-414	Гекс-3-енил 2-метилбутират	Hex-3-enyl 2-methylbutyrate	3-Hexenyl 2-methylbutyrate; cis-3-Hexenyl-a-methylbutyrate; Hex-3-enyl 2-methylbutanoate;
09.507	3499	4132	10032-152	Гексил 2-метилбутират	Hexyl 2-methylbutyrate	
09.508	2143	11868	7492-69-5	Бензил 2,3-диметилкротоноат	Benzyl 2,3-dimethylcrotonate	Benzyl methyltiglate; Benzyl 2,3-dimethyl-2-butenate; Benzyl-2,3-dimethylbut-2(trans)-enoate
09.509	2388	11828	7774-60-9	1-Метил-1-фенетил изобутират	1-Methyl-1-phenethyl isobutyrate	Dimethyl phenyl carbinyl isobutyrate; Phenylpropan-2-yl 2-methylpropionate; alpha,alpha-Dimethylbenzyl isobutyrate; 2-Phenylpropan-2-yl 2-methylpropanoate; 1-Methyl-1-(2-phenylethyl) 2-methylpropanoate
09.510	2417	11845	1321-30-8	Этил аконитат	Ethyl aconitate	Triethyl aconitate; Ethyl 1-propene-1,2,3-tricarboxylate; Ethyl 2-carboxyglutaconate; Triethyl propene-1,2,3-tricarboxylate
09.511	3080		77-90-7	Трибутил ацетилцитрат	Tributyl acetylcitrate	Acetyl tributylcitrate; Tributyl 2-acetoxy-1,2,3-propanetricarboxylate
09.512	3083	11762	77-93-0	Триэтилцитрат	Triethyl citrate	Ethyl citrate; Triethyl 2-hydroxy-1,2,3-propanetricarboxylate
09.513	3229	10733	1733-25-1	Изопропил 2-метилкротоноат	Isopropyl 2-methylcrotonate	Propyl iso tiglate, Isopropyl tiglate; Propyl iso alpha-Methylcrotonate; Isopropyl alpha-Methylcrotonate; Isopropyl 2-methylbut-2(trans)-enoate
09.514	3278	11903	13246-521	Этил 2,4-диоксогексаноат	Ethyl 2,4-dioxohexanoate	Ethyl propionylpyruvate; Ethyl-2,4-diketocaproate; ethyl propionyl pyruvate;

09.515	3339	11667	73019-144	Геранил 2-этилбутират	Geranyl 2-ethylbutyrate	3,7-Dimethyl-2(trans),6-octadienyl 2-ethylbutanoate
09.516	3359	10773	2445-78-5	2-Метилбутил 2-метилбутират	2-Methylbutyl 2-methylbutyrate	2-Methylbutyl 2-methylbutanoate;
09.517	3361	10781	2270-60-2	Метил цитронеллат	Methyl citronellate	Methyl-3,7-dimethyl-oct-6-enoate; Methyl 3,7-dimethyloct-6-enoate
09.518	3387	10545	55066-563	4-Метилфенил изовалерат	4-Methylphenyl isovalerate	p-Cresyl isopentanoate; 4-Methylphenyl 3-methylbutyrate; p-Tolyl isovalerate; p-Tolyl-3-methyl butyrate; 4-Methylphenyl 3-methylbutanoate
09.519	3393	10534	15706-737	Бутил 2-метилбутират	Butyl 2-methylbutyrate	
09.520	3408	10785	24851-987	Метил 3-оксо-2-пентил-1-циклопентилацетат	Methyl 3-oxo-2-pentyl-1-cyclopentylacetate	Hedione; Methyl dihydrojasmonate; Methyl 2-pentyl-3-oxo-1-cyclopentyl-acetate; Jasmonic acid, (E)-dihydro-, methyl ester;
09.521	3410	10821	39924-522	Метил 3-оксо-2-пент-2-енил-1-циклопентилацетат	Methyl 3-oxo-2-pent-2-enyl-1-cyclopentylacetate	Methyl jasmonate; 2-Pentenyl cyclopentanone-3-acetic acid, methyl ester; Methyl(2-pent-2-enyl-3-oxo-1-cyclopentyl)acetate;
09.522	3428	10596	5405-41-4	Этил 3-гидроксибутират	Ethyl 3-hydroxybutyrate	Ethyl 3-hydroxybutanoate; Ethyl Beta-hydroxybutyrate;
09.523	3452	10563	6624-71-1	Додецил изобутират	Dodecyl isobutyrate	Dodecyl 2-methyl-propanoate; Lauryl isobutyrate; Lauryl 2-methylpropionate; Dodecyl 2-methylpropanoate
09.524	3456	10612	1617-23-8	Этил 2-метилпент-3-еноат	Ethyl 2-methylpent-3-enoate	
09.525	3462	10739	65416-140	Мальтил изобутират	Maltyl isobutyrate	2-Methyl-4-pyrone-3-yl 2-methylpropanoate; Maltyl 2-methylpropanoate; 2-Methyl-4H-pyran-4-one-3-yl 2-methylpropanoate
09.526	3488	10616	39255-328	Этил 2-метилвалерат	Ethyl 2-methylvalerate	Ethyl 2-methylpentanoate;
09.527	3489	10613	53399-818	Этил 2-метилпент-4-еноат	Ethyl 2-methylpent-4-enoate	
09.528	3494	10663	67801-450	транс-3-Гептенил изобутират	trans-3-Heptenyl isobutyrate	Hept-3(trans)-enyl isobutyrate; Hept-3(trans)-enyl 2-methylpropanoate
09.529	3500	10692	10032-130	Гексил изовалерат	Hexyl isovalerate	Hexyl isopentanoate; Hexyl isovalerianate; Hexyl 3-methylbutanoate
09.530	3505	10721	27625-350	Изопентил 2-метилбутират	Isopentyl 2-methylbutyrate	Isoamyl 2-methylbutanoate; Isopentyl 2-methylbutanoate; Iso-Amyl 2-methylbutanoate; 3-Methylbutyl 2-methylbutanoate
09.531	3506	10772	2445-77-4	2-Метилбутил изовалерат	2-Methylbutyl isovalerate	2-Methylbutyl isopentanoate; 2-Methylbutyl 3-methylbutanoate
09.532	3508	10812	21188-589	Метил 3-гидроксигексаноат	Methyl 3-hydroxyhexanoate	Methyl 3-hydroxycaproate; Methyl beta-hydroxycaproate; Methyl beta-hydroxyhexanoate;
09.533	3543	10571	105-95-3	Этил брассилат	Ethyl brassylate	Ethylene glycol brassylate, cyclic diester;

						Ethylene brassylate; Ethylene undecane dicarboxylate; 1,4-Dioxacycloheptadecan-5,17-dione
09.534	3544	11916	3289-28-9	Этил циклогексанкарбоксилат	Ethyl cyclohexanecarboxylate	
09.535	3545	11764	2305-25-1	Этил 3-гидроксигексан оат	Ethyl 3-hydroxyhexanoate	
09.536	3568	11920	4630-82-4	Метил циклогексанкарбоксилат	Methyl cyclohexanecarboxylate	
09.537	3604	10866	29811-505	Октил 2-метилбутират	Octyl 2-methylbutyrate	
09.538	3632	10883	24817-514	Фенетил 2-метилбутират	Phenethyl 2-methylbutyrate	2-Phenylethyl 2-methylbutanoate; Benzylcarbonyl 2-methylbutyrate; beta-Phenethyl alpha-methylbutanoate;
09.539	3676		94133-923	Окт-3-ил-2-метилкротоноат	Oct-3-yl- 2-methylcrotonate	Oct-3-yl tiglate; 1-Ethylhexyl 2-methyl-2-butenolate; 1-Ethylhexyl 2-methylcrotonate; 3-Octyl tiglate; 1-Ethylhexyl 2-methylbut-2(trans)-enoate
09.540	3678		60523-219	Этил 2-метилпента-3,4-диеноат	Ethyl 2-methylpenta3,4-dienoate	
09.541	3679		5870-68-8	Этил 3-метилвалерат	Ethyl 3-methylvalerate	
09.542	3683		3249-68-1	Этил 3-оксогексаноат	Ethyl 3-oxohexanoate	Ethyl beta-ketohexanoate;
09.543	3685	10648	26446-311	Глицерил 5-гидроксидеканоат	Glyceryl 5-hydroxydecanoate	
09.544	3686	10649	26446-322	Глицерил 5-гидроксидодеканат	Glyceryl 5-hydroxydodecanoate	
09.545	3690	10681	61931-815	Гекс-3-енил лактат	Hex-3-enyl lactate	Hex-3-enyl 2-hydroxypropanoate
09.546	3693		58625-959	Гексил-2-метилпент-(3 и 4)-еноат	Hexyl-2-methylpent-(3 and 4)-enoate	
09.547	3699		66576-714	Изопропил 2-метилбутират	Isopropyl 2-methylbutyrate	
09.548	3706		40348-729	Метил 2-гидрокси-4-метилвалерат	Methyl 2-hydroxy-4-methylvalerate	Methyl 2-hydroxyisocaproate;
09.549	3707		2177-77-7	Метил 2-метилвалерат	Methyl 2-methylvalerate	Methyl 2-methylvalerate;
09.550	3713		3682-42-6	Метил 2-оксо-3-метилвалерат	Methyl 2-oxo-3-methylvalerate	Methyl 2-keto-3-methylpentanoate; Methyl 2-keto-3-methylvalerate; Methyl 3-methyl-2-oxovalerate;
09.551	3748		59259-380	1-Ментил лактат	1-Menthyl lactate	5-Methyl-2-(1-methylethyl)cyclohexyl alpha-hydroxypropanoate; 1-p-Menthan-3-yl lactate;

09.552	3767	10650	91052-696	Глицериновый моноэфир 3-оксодекановой кислоты	3-Oxodecanoic acid glyceride	Glyceryl beta-ketodecanoate; Glyceryl monoester of 3-oxodecanoic acid;
09.553	3768	10651	91052-709	Глицериновый моноэфир 3-оксододекановой кислоты	3-Oxododecanoic acid glyceride	Glyceryl beta-ketododecanoate; Glyceryl monoester of 3-oxododecanoic acid;
09.554	3769	10652	91052-710	Глицериновый моноэфир 3-оксогексадекановой кислоты	3-Oxohexadecanoic acid glyceride	Glyceryl beta-ketohexadecanoate; Glyceryl monoester of 3-oxohexadecanoic acid;
09.555	3770	10653	91052-721	Глицериновый моноэфир 3-оксогексановой кислоты	3-Oxohexanoic acid glyceride	Glyceryl beta-ketohexanoate; Glyceryl diester of 3-oxohexanoic acid;
09.556	3771	10654	91052-685	Глицериновый моноэфир 3-оксооктановой кислоты	3-Oxooctanoic acid glyceride	Glyceryl beta-ketooctanoate; Glyceryl monoester of 3-oxooctanoic acid;
09.557	3772	10655	91052-732	Глицериновый моноэфир 3-оксотетрадекановой кислоты	3-Oxotetradecanoic acid glyceride	Glyceryl beta-ketotetradecanoate; Glyceryl monoester of 3-oxotetradecanoic acid;
09.558		11754	108-59-8	Диметил малонат	Dimethyl malonate	Dimethyl azelate; Dimethyl propanedioate
09.559	3931		67883-798	Гекс-3(цис)-енил 2-метилкротоноат	Hex-3(cis)-enyl 2-methylcrotonate	cis-3-Hexenyl tiglate; cis-3-Hexenyl-2-methyl-trans-2-butenoate; (Z)-3-Hexenyl 2-methylcrotonate; Hex-3(cis)-enyl 2-methylbut-2(trans)-enoate
09.561	3925	10676	65405-767	Гекс-3(цис)-енил антралилат	Hex-3(cis)-enyl anthranilate	(Z)-Hexenyl 2-aminobenzoate; (Z)-Hex-3-enyl anthranilate; cis-3-Hexenyl anthranilate; Hex-3(cis)-enyl 2-aminobenzoate
09.562	3353		56922-806	транс-3-Гексенил формат	trans-3-Hexenyl formate	
09.563	3929	11783	41519-237	Гекс-3(цис)-енил изобутират	Hex-3(cis)-enyl isobutyrate	beta,gamma-Hexenyl isobutanoate; (Z)-Hex-3-enyl isobutyrate; cis-3-Hexenyl isobutyrate; Hex-3(cis)-enyl 2-methylpropanoate
09.564	3933	10683	33467-742	Гекс-3(цис)-енил пропионат	Hex-3(cis)-enyl propionate	beta, gamma-Hexenyl propanoate; (E)-Hex-2-enyl propionate; trans-2-Hexenyl propionate;
09.565	3934	10684	68133-766	Гекс-3-енил-2-оксопропионат	Hex-3-enyl 2-oxopropionate	Hex-3-enyl pyruvate;
09.566	3982		65405-803	(Z)-3-Гексенил(E)-2-бутеноат	(Z)-3-Hexenyl (E)-2-butenate	2-Butenoic acid, 3-hexenyl ester; (E,Z)-Crotonate de (Z)-3-hexenyle; (Z)-3-Hexenyl crotonate; (Z)-3-Hexenylcrotonat; (E,Z)-2-Butenoic acid 3-hexenyl ester; cis-3-Hexenyl trans-2-butenate
09.568	3928		53398-871	Гекс-3-енил гекс-2-еноат	Hex-3-enyl hex-2-enoate	

09.570		10685	65405-778	Гекс-3-енилсалицилат	Hex-3-enylsalicylate	Hex-3-enyl 2-hydroxybenzoate
09.571	3936	10686	35852-461	Гекс-3-енил валерат	Hex-3-enyl valerate	Hex-3-enyl pentanoate; cis-3-Hexenyl pentanoate; cis-3-Hexenyl valerate; (Z)-Hex-3-enyl valerate;
09.573	4132	10675	1516-17-2	Гекса-2,4-диенил ацетат	Hexa-2,4-dienyl acetate	
09.576		10840		втор-Гексил ацетат	sec-Hexyl acetate	1-Methylpentyl acetate
09.578	3354	10688	1617-25-0	Гексилкроптоноат	Hexyl crotonate	Hexyl but-2(trans)-enoate
09.581		10695	6259-76-3	Гексил салицилат	Hexyl salicylate	n-Hexyl o-hydroxybenzoate; Hexyl 2-hydroxybenzoate
09.583		10696	1117-59-5	Гексилвалерат	Hexyl valerate	Hexyl pentanoate;
09.584	4146		85586-670	Изоборнил изобутират	Isobornyl isobutyrate	Propanoic acid, 2- methyl-, (1R, 2R, 4R)-1,7,7-trimethylbicyclo[ 2.2.1] hept- 2- yl
09.585		10710	2445-67-2	Изобутил 2-метилбутират	Isobutyl 2-methylbutyrate	2-Methylpropyl 2-methylbutanoate
09.587		10707	30673-382	Изобутилдеканоат	Isobutyl decanoate	2-Methylpropyl decanoate
09.588		10708	37811-726	Изобутилдодеканоат	Isobutyldodecanoate	2-Methylpropyl dodecanoate
09.589		10715	110-34-9	Изобутил гексадеканоат	Isobutyl hexadecanoate	Isobutyl palmitate; 2-Methylpropyl hexadecanoate
09.590		10709	585-24-0	Изобутил лактат	Isobutyl lactate	2-Methylpropyl 2-hydroxypropanoate
09.593		10714	5461-06-3	Изобутилоктаноат	Isobutyl octanoate	2-Methylpropyl octanoate
09.594		10712	25263-972	Изобутил тетрадеканоат	Isobutyl tetradecanoate	Isobutyl myristate; 2-Methylpropyl tetradecanoate
09.599		10719	109-25-1	Изопентилгептаноат	Isopentylheptanoate	3-Methylbutyl heptanoate
09.600		10723	81974-610	Изопентил гексадеканоат	Isopentyl hexadecanoate	Isoamyl palmitate; 3-Methylbutyl hexadecanoate
09.601		10720	19329-896	Изопентил лактат	Isopentyl lactate	3-Methylbutyl 2-hydroxypropanoate
09.602		10722	62488-248	Изопентил тетрадеканоат	Isopentyl tetradecanoate	Isoamyl myristate; 3-Methylbutyl tetradecanoate
09.603		10729	6284-46-4	Изопропилкроптоноат	Isopropyl crotonate	Isopropyl but-2(trans)-enoate
09.604		10730	2311-59-3	Изопропилдеканоат	Isopropyl decanoate	Isopropyl caprate;
09.606		10732	142-91-6	Изопропил гексадеканоат	Isopropyl hexadecanoate	Isopropyl palmitate;
09.608		10731	5458-59-3	Изопропилоктаноат	Isopropyl octanoate	Isopropyl caprylate;
09.614		10738	10471-962	Линалил валерат	Linalyl valerate	Linalyl pentanoate; 1,5-Dimethyl-1-vinylhex-4-enyl pentanoate
09.615	3566	10748	28839-136	p-Мент-1-ен-9-ил ацетат	p-Menth-1-en-9-yl acetate	
09.616	3810		77341-674	моно-Мент-3-ил сукцинат	mono-Menth-3-yl succinate	Butanedioic acid, mono[5-methyl 2-(1-methyl-ethyl)cyclohexyl] ester, [1R-

						(1alpha,2beta,5alpha)]; 3-(5-methyl-2-isopropylcyclohexoxycarbonyl)propanoic acid
09.618		10751	2230-90-2	Ментилформат	Menthyl formate	p-Menthane-3-yl formate
09.626		10848	600-22-6	Метил 2-оксопропионат	Methyl 2-oxopropionate	Methyl pyruvate;
09.629		10755	21188-603	Метил 3-ацетоксигексан оат	Methyl 3-acetoxyhexanoate	
09.632		10756	35234-221	Метил 5-ацетоксигексаноат1	Methyl 5-acetoxyhexanoate	
09.635		10759		Метилакрилат	Methyl acrylate	Methyl prop-2-enoate
09.637		11799	2482-39-5	Метил дец-2-еноат	Methyl dec-2-enoate	
09.638		10784	7367-83-1	Метил дец-4-еноат	Methyl dec-4-enoate	
09.639	3859		4493-42-9	Метил дека-2,4-диеноат	Methyl deca-2,4-dienoate	
09.640		10782	1191-03-3	Метилдека-4,8-диеноат	Methyl deca-4,8-dienoate	
09.641		10792	6208-91-9	Метил додец-2-еноат	Methyl dodec-2-enoate	
09.642		10795	107-31-3	Метил формат	Methyl formate	
09.643		10797	1189-09-9	Метил геранат	Methyl geranate	Methyl 3,7-dimethyl-2(trans),6-octadienoate
09.645	3411	713	112-63-0	Метил линолеат	Methyl linoleate	Methyl octadeca-9(cis),12(cis)-dienoate;
09.646	3411	714	301-00-8	Метил линоленат	Methyl linolenate	Methyl octadeca-9(cis),12(cis),15(cis)-trienoate;
09.648	4169		10072-056	Метил N,N-диметилантранилат	Methyl N,N-dimethylantranilate	Benzoic acid, 2-( dimethylamino)-, methyl ester Anthranilic acid, N, N- dimethyl-, methyl ester Methyl 2-( dimethylamino) benzoate Methyl o-( dimethylamino) benzoate
09.649	4170		2719-08-6	Метил N-ацетилантранилат	Methyl N-acetylantranilate	Benzoic acid, 2-( acetylamino)-, methyl ester; Anthranilic acid, N- acetyl-, methyl ester; Methyl 2-( acetylamino) benzoate; Methyl 2-acetamidobenzoate; Methyl N-acetoanthranilate; o-( Methoxycarbonyl) acetanilide; o- Acetamidobenzoic acid methyl ester
09.650	4171		41270-808	Метил N-формилантранилат	Methyl N-formylantranilate	Benzoic acid, 2-( formylamino)-, methyl ester; Methyl o- formamidobenzoate; N-Formylantranilic acid, methyl ester
09.651		10849	112-61-8	Метилоктадеканоат	Methyloctadecanoate	Methyl stearate;
09.652		10836	112-62-9	Метилолеат	Methyl oleate	Methyl 9-octadecenoate; Methyl octadec-9-enoate
09.657	4012	10761	626-38-0	1-Метилбутилацет	1-Methylbutylacetate	Pent-2-yl acetate;
09.658	3893	10763	60415-614	1-Метилбутилбут	1-Methylbutylbutyrate	Pent-2-yl butyrate;
09.660		10765	55195-238	2-Метилбутил	2-Methylbutyl	



				деcanoат	decanoate	
09.662		10768	2601-13-0	2-Метилбутил гексаноат	2-Methylbutyl hexanoate	
09.663		10770	2445-69-4	2-Метилбутил изобутират	2-Methylbutyl isobutyrate	2-Methylpropionic acid, 2-methylbutyl ester; 2-Methylbutyl 2-methylpropanoate
09.664		10776	67121-395	2-Метилбутил октаноат	2-Methylbutyl octanoate	
09.665		10778	2438-20-2	2-Метилбутил пропионат	2-Methylbutyl propionate	
09.666		10774	93805-233	2-Метилбутил тетрадеcanoат	2-Methylbutyl tetradecanoate	Methylbutyl myristate;
09.669		10857	1118-39-4	Мириценил ацетат	Myrcenyl acetate	7-Methyl-3-methyleneoct-1-en-7-yl acetate
09.671		10862	56001-435	Неролидил ацетат	Nerolidyl acetate	1,5,9-Trimethyl--1-vinyl-4(cis),8-decadienyl acetate
09.676		10799	2051-50-5	втор-Октилацетат	sec-Octyl acetate	1-Methylheptyl acetate
09.677		10865	4887-30-3	Октилгексаноат	Octyl hexanoate	
09.678	4191		74298-898	(Z)-Пент-2-енил гексаноат	(Z)-Pent-2-enyl hexanoate	2-Penten-1-yl hexanoate
09.679		10875	68039-269	Пентил 2- метилбутират	Pentyl 2- methylbutyrate	Amyl 2-methylbutyrate;
09.684		10880	64181-200	Фенетилкрононат	Phenethyl crotonate	Phenylethyl but-2(trans)-enoate
09.685		10881	61810-557	2-Фенетилдеcanoат	2-Phenethyldecanoate	Phenethyl caprate;
09.688	3958	10878	122-79-2	Фенил ацетат	Phenyl acetate	(Acetyloxy) benzene; Phenol acetate; Acetoxybenzene;
09.689	3960	11814	118-55-8	Фенил салицилат	Phenyl salicylate	Salol; Phenyl 2-hydroxybenzoate; Phenyl-o- hydroxybenzoate
09.691	4197		10236-165	(E,Z)-Фитилацетат	(E,Z)-Phytyl acetate	
09.692	4202	11796	1191-16-8	Пренил ацетат	Prenyl acetate	3-Methylbut-2-enyl acetate
09.693	4203		08.11.520 5	Пренил бензоат	Prenyl benzoate	2- Buten- 1- ol, 3- methyl-, benzoate; 3- Methyl- 2- butenyl benzoate; Benzoic acid, 3- methyl- 2- butenyl ester
09.694	4205		68480-284	Пренил формиат	Prenyl formate	2- Buten- 1- ol, 3- methyl-, formate; Methanoic acid, 3- methyl- 2- butenyl ester
09.695	4206		76649-235	Пренил изобутират	Prenyl isobutyrate	Propanoic acid, 2- methyl-, 3-methyl- 2- butenyl ester; Isobutyric acid, 3- methyl- 2- butenyl ester
09.698		10891	37064-203	Пропил 2- метилбутират	Propyl 2- methylbutyrate	
09.701	2038	228	7493-74-5	Аллил феноксиацетат	Allyl phenoxyacetate	Acetate P.A.; 2-Propenyl phenoxyacetate;
09.702	2955	229	4606-15-9	Пропил фенилацетат	Propyl phenylacetate	Propyl alpha-toluate; Propyl alpha-Toluate;
09.703	2812	230	122-45-2	Октилфенилацетат	Octyl phenylacetate	Octyl alpha-toluate;

09.704	2516	231	102-22-7	Геранил фенилацетат	Geranyl phenylacetate	Geranyl alpha-toluate; Trans-3,7-Dimethyl-2,6-octadien-1-yl-phenylacetate; 3,7-Dimethylocta-2(trans),6-dienyl phenyl acetate
09.705	2149	232	102-16-9	Бензил фенилацетат	Benzyl phenylacetate	Benzyl alpha-toluate; Phenylacetic acid, benzyl ester; Benzyl-2-phenyl ethanoate;
09.706	3740	233	102-17-0	Анисил фенилацетат	Anisyl phenylacetate	4-Methoxybenzyl phenylacetate; Anisyl alpha-toluate; p-Methoxybenzyl phenylacetate; Phenylacetic acid, p-methoxybenzyl ester;
09.707	2866	234	102-20-5	Фенетил фенилацетат	Phenethyl phenylacetate	Phenylethyl phenylacetate; Phenethyl alpha-toluate; 2-Phenylethyl alpha-toluate; 2-Phenylethyl phenylacetate;
09.708	2300	235	7492-65-1	Циннамил фенилацетат	Cinnamyl phenylacetate	3-Phenyl-2-propen-1-yl phenylacetate; Cinnamyl alpha-toluate; 3-Phenylallyl phenylacetate; 3-Phenylprop-2-enyl phenyl acetate
09.709	3077	236	101-94-0	п-Толил фенилацетат	p-Tolyl phenylacetate	p-Cresyl alpha-toluate; p-Cresyl phenylacetate; p-Tolyl alpha-Toluate; 4-Methylphenyl phenylacetate
09.710	2477	237	120-24-1	Изоэвгенил фенилацетат	Isoeugenyl phenylacetate	2-methoxy-4-phenyl phenylacetate; 4-Propenylguaiacyl phenylacetate; Isoeugenyl alpha-Toluate; 2-Methoxy-4-(prop-1-enyl)phenyl phenylacetate
09.711	2535	238	4112-89-4	Гвайяцил фенилацетат	Guaiacyl phenylacetate	o-Methylcatechol acetate; Guaiacol phenylacetate; o-Methoxyphenyl phenylacetate; 2-Methoxyphenyl phenylacetate
09.712	3008	239	1323-75-7	Санталил фенилацетат	Santalyl phenylacetate	alpha-Santalyl phenylacetate; beta-Santalyl phenylacetate; Santalyl alpha-toluate;
09.713	2679	248	121-98-2	Метил 4- метоксибензоат	Methyl 4-methoxybenzoate	Methyl p-methoxybenzoate; Methyl p-anisate; Methyl anisate;
09.714	2420	249	94-30-4	Этил 4- метоксибензоат	Ethyl 4-methoxybenzoate	Ethyl p-methoxybenzoate; Ethyl p-anisate; Ethyl anisate;
09.715	2682	250	134-20-3	Метил антранилат	Methyl anthranilate	Methyl o-Aminobenzoate; o-Amino methyl benzoate; Methyl 2-aminobenzoate
09.716	2421	251	87-25-2	Этил антранилат	Ethyl anthranilate	Ethyl o-Aminobenzoate; Ethyl 2-aminobenzoate
09.717	2181	252	7756-96-9	Бутил антранилат	Butyl anthranilate	Butyl 2-Aminobenzoate; Butyl o-Aminobenzoate; Butyl 2-aminobenzoate
09.718	2182	253	7779-77-3	Изобутил антранилат	Isobutyl anthranilate	Isobutyl 2-aminobenzoate; Isobutyl o-Aminobenzoate; 2-Methylpropyl 2-aminobenzoate
09.719	2020	254	7493-63-2	Аллил антранилат	Allyl anthranilate	Allyl o-aminobenzoate; 2-Propenyl 2-aminobenzoate; 2-Propenyl anthranilate; Allyl 2-aminobenzoate
09.721	2637	256	7149-26-0	Линалил антранилат	Linalyl anthranilate	Linalyl o-aminobenzoate; 3,7-Dimethyl-1,6-octadien-3-yl-2-aminobenzoate; Linalyl 2-

						aminobenzoate; 1,5-Dimethyl-1-vinylhex-4-enyl 2-aminobenzoate
09.722	2350	257	7779-16-0	Циклогексил антралилат	Cyclohexyl anthranilate	Cyclohexyl 2-aminobenzoate
09.723	2859	258	133-18-6	Фенетил антралилат	Phenethyl anthranilate	2-Phenylethyl anthranilate; Beta-Phenylethyl o-Aminobenzoate; 2-Phenylethyl 2-aminobenzoate
09.724	3048	259	14481-52-8	альфа-Терпинил антралилат	alpha-Terpinyl anthranilate	p-Menth-1-en-8-yl anthranilate; p-Mentha-1-en-8-yl 2-aminobenzoate; Terpinyl o-Aminobenzoate; p-Menth-1-en-8-yl 2-aminobenzoate
09.725	2683	260	93-58-3	Метил бензоат	Methyl benzoate	Methyl benzenecarboxylate;
09.726	2422	261	93-89-0	Этил бензоат	Ethyl benzoate	Ethyl benzenecarboxylate; Ethyl benzene carboxylate;
09.727	2138	262	120-51-4	Бензил бензоат	Benzyl benzoate	Benzoic acid benzyl ester; Benzyl benzenecarboxylate; Benzyl phenylformate;
09.728	2453	307	10031-93-3	Этил 4-фенилбутират	Ethyl 4-phenylbutyrate	Butanoic acid, 4-methyl, ethyl ester; Ethyl 4-phenyl-butanoate;
09.729	2739	308	2046-17-5	Метил 4-фенилбутират	Methyl 4-phenylbutyrate	Methyl gamma-phenylbutyrate;
09.730	2430	323	103-36-6	Этил циннамат	Ethyl cinnamate	Ethyl beta-phenylacrylate; Ethyl trans-cinnamate; Ethyl 3-phenylpropenoate; Ethyl phenylacrylate; Ethyl 3-phenylprop-2-enoate
09.731	2938	324	7778-83-8	Пропил циннамат	Propyl cinnamate	n-propyl 3-phenylpropenoate; n-Propyl beta-phenylacrylate; Propyl 3-phenylprop-2-enoate
09.732	2939	325	7780-06-5	Изопропил циннамат	Isopropyl cinnamate	Propyl iso cinnamate; Isopropyl 3-phenylpropenoate; 1-Methylethyl 3-phenylpropenoate; Isopropyl 3-phenylprop-2-enoate
09.733	2192	326	538-65-8	Бутил циннамат	Butyl cinnamate	Butyl 3-phenylpropenoate; Butyl beta-Phenylacrylate; n-Butyl phenylacrylate; Cinnamic acid, butyl ester; Butyl 3-phenylprop-2-enoate
09.734	2193	327	122-67-8	Изобутил циннамат	Isobutyl cinnamate	2-Methylpropyl beta-phenylacrylate; 2-Methylpropyl 3-phenylpropenoate; Isobutyl beta-phenylacrylate; 2-Methylpropyl 3-phenylprop-2-enoate
09.735		328	3487-99-8	Пентил циннамат	Pentyl cinnamate	Amyl cinnamate; Cinnamic acid amyl ester; Pentyl-3-phenyl prop-2-enoate; Pentyl 3-phenylprop-2-enoate
09.736	2641	329	78-37-5	Линалил циннамат	Linalyl cinnamate	3,7-Dimethyl-1,6-octadien-3-yl cinnamate; Linalyl 3-phenylpropenoate; 3,7-Dimethyl-1,6-octadien-3-yl beta-phenylacrylate; 1,5-Dimethyl-1-vinylhex-4-enyl 3-phenylprop-2-enoate
09.737	3051	330	10024-563	Терпинил циннамат	Terpinyl cinnamate	Terpinyl 3-phenylpropenoate; Terpinyl beta-Phenylacrylate; p-Menth-1-en-8-yl cinnamate

09.738	2142	331	103-41-3	Бензил циннамат	Benzyl cinnamate	Cinnamein; Benzyl beta-phenylacrylate; 2-Propenoic acid, 3-phenyl, phenylmethyl ester; Benzyl 3-phenylprop-2-enoate
09.739	2298	332	122-69-0	Циннамил циннамат	Cinnamyl cinnamate	Styracin; Phenylallyl cinnamate; 3-Phenyl-2-propen-1-yl 3-phenylpropenoate; 3-Phenylprop-2-enyl 3-Phenylprop-2-enoate
09.740	2698	333	103-26-4	Метил циннамат	Methyl cinnamate	Methyl 3-phenylpropenoate; Methyl-3-phenyl prop-2-enoate; Methyl 3-phenylprop-2-enoate
09.741	2022	334	1866-31-5	Аллил циннамат	Allyl cinnamate	Allyl-beta-phenylacrylate; Propenyl cinnamate; Allyl-3-phenyl propenoate; Allyl $\beta$ -phenylacrylate; Allyl 3-phenylprop-2-enoate
09.742	2063	335	7779-65-9	Изопентил циннамат	Isopentyl cinnamate	Penty iso cinnamate; Isoamyl cinnamate; Isopentyl 3-phenylpropenoate; Isopentyl $\beta$ -phenylacrylate; 3-Methylbutyl 3-phenylprop-2-enoate
09.743	2863	336	103-53-7	Фенетил циннамат	Phenethyl cinnamate	Benzyl carbinyл cinnamate; Benzylcarbinyл cinnamate; 2-Phenylethyl 3-phenylpropenoate; $\beta$ -Phenethyl $\beta$ -phenylacrylate; Phenethyl 3-phenylprop-2-enoate
09.744	2352	337	7779-17-1	Циклогексил циннамат	Cyclohexyl cinnamate	Cyclohexyl 3-phenylpropenoate; Cyclohexyl $\beta$ -phenylacrylate; Cyclohexyl-3-phenyl prop-2-enoate; Cyclohexyl 3-phenylprop-2-enoate
09.745	2894	338	122-68-9	3-Фенилпропил циннамат	3-Phenylpropyl cinnamate	Hydrocinnamyl cinnamate; Phenylpropyl cinnamate; Hydrocinnamyl 3-phenylpropenoate; 3-Phenylpropyl beta-phenylacrylate; 3-Phenylpropyl 3-phenylprop-2-enoate
09.746	2741	427	103-25-3	Метил 3-фенилпропионат	Methyl 3-phenylpropionate	Methyl hydrocinnamate; Methyl Dihydrocinnamate;
09.747	2455	429	2021-28-5	Этил 3-фенилпропионат	Ethyl 3-phenylpropionate	Ethyl hydrocinnamate; Ethyl dihydrocinnamate;
09.748	2458	432	118-61-6	Этил салицилат	Ethyl salicylate	Salicylic ether; Salicylic acid, ethyl ester; Ethyl 2-hydroxybenzoate
09.749	2745	433	119-36-8	Метил салицилат	Methyl salicylate	Methyl 2-hydroxybenzoate
09.750	2213	434	87-19-4	Изобутил салицилат	Isobutyl salicylate	2-Methyl-1-propyl salicylate; 2-Methylpropyl o-hydroxybenzoate; Butyl salicylate; Isobutyl o-Hydroxybenzoate; 2-Methylpropyl 2-hydroxybenzoate
09.751	2084	435	87-20-7	Изопентил салицилат	Isopentyl salicylate	Isopentyl o-hydroxybenzoate; Salicylic acid, isopentyl ester; Isoamyl o-hydroxybenzoate; 3-Methylbutyl salicylate; 3-Methylbutyl 2-hydroxybenzoate
09.752	2151	436	118-58-1	Бензил салицилат	Benzyl salicylate	Benzoic acid, 2-hydroxy, phenylmethyl ester; Benzyl o-hydroxybenzoate; Salicylic acid, benzyl ester; Benzyl 2-hydroxybenzoate
09.753	2868	437	87-22-9	Фенетил салицилат	Phenethyl salicylate	2-Phenylethyl salicylate; Benzylcarbinyл 2-

						hydroxybenzoate; Benzylcarbiny salicylate; 2-Phenylethyl 2-hydroxybenzoate
09.754	2203	525	94-26-8	Бутил 4-гидроксibenзоат	Butyl 4-hydroxybenzoate	Butyl p-hydroxy benzoate; Butyl parasept; p-Hydroxybenzoic acid butyl ester;
09.755	2058	562	94-46-2	Изопентил бензоат	Isopentyl benzoate	Isoamyl benzoate; Pentyl iso benzoate; Amyl iso benzoate; Isopentyl phenyl methanoate; 3-Methylbutyl benzoate
09.756		566	94022-067	Изоборнил фенилацетат	Isobornyl phenylacetate	exo-2-Bornyl phenylacetate; 1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl phenylacetate
09.757	2185	567	120-50-3	Изобутил бензоат	Isobutyl benzoate	Isobutyl phenyl methanoate; 2-Methylpropyl benzoate
09.758	2690	577	3549-23-3	Метил п-трет-бутилфенилацетат	Methyl p-tert-butylphenylacetate	Methyl 4-(1,1-dimethylethyl)phenylacetate
09.761		612	5137-52-0	Пентилфенилацетат	Pentylphenylacetate	Amyl phenylacetate;
09.762		613	2050-08-0	Пентил салицилат	Pentyl salicylate	Isoamyl o-hydroxybenzoate; Isoamyl salicylate; Pentyl 2-hydroxybenzoate
09.763	3650	614	2052-14-4	Бутил салицилат	Butyl salicylate	Butyl (2-hydroxy-phenyl)-methanoate; Butyl 2-hydroxybenzoate
09.764	4115	629	38446-218	Этил N-этилантранилат	Ethyl N-ethylanthranilate	Ethyl N-ethyl-2-aminobenzoate
09.765	4116	632	35472-561	Этил N-метилантранилат	Ethyl N-methylanthranilate	Ethyl N-methyl-2-aminobenzoate
09.766	2471	636	531-26-0	Эвгенил бензоат	Eugenyl benzoate	Benzoyl eugenol; Eugenol benzoate; 4-Allyl-2-methoxyphenyl benzoate
09.767	2511	639	94-48-4	Геранил бензоат	Geranyl benzoate	Geraniol benzoate; trans-3,7-Dimethyl-2,6-octadien-1-yl-benzoate; 3,7-Dimethylocta-2(trans),6-dienyl benzoate
09.768	3691	645	6789-88-4	Гексилбензоат	Hexyl benzoate	n-Hexyl benzoate; Hexyl phenyl methanoate;
09.769	4149	649	65505-240	Изобутил N-метилантранилат	Isobutyl N-methylanthranilate	2-Methylpropyl N-methyl-2-aminobenzoate
09.770	2932	652	939-48-0	Изопропил бензоат	Isopropyl benzoate	Propyl iso benzoate; 1-Methylethyl benzoate;
09.771	2638	654	126-64-7	Линалил бензоат	Linalyl benzoate	Linalool benzoate; 3,7-Dimethyl-1,6-octadien-3-yl benzoate; 1,5-Dimethyl-1-vinylhex-4-enyl benzoate
09.772	3501	655	7143-69-3	Линалил фенилацетат	Linalyl phenylacetate	Linalyl alpha-toluate; 3,7-Dimethyl-1,6-octadien-3-yl phenylacetate; Linalyl alpha-Toluate; 1,5-Dimethyl-1-vinylhex-4-enyl phenylacetate
09.774	2860	667	94-47-3	Фенетил бензоат	Phenethyl benzoate	2-Phenylethyl benzoate; Benzylcarbiny benzoate;
09.776	2931	677	2315-68-6	Пропилбензоат	Propyl benzoate	Propyl phenyl methanoate;
09.779		740	136-60-7	Бутил бензоат	Butyl benzoate	n-Butyl benzoate;
09.780		743	5320-75-2	Циннамил бензоат	Cinnamyl benzoate	3-Phenylallyl benzoate; 3-Phenylprop-2-enyl benzoate

09.781	2718	756	85-91-6	Метил N-метилантранилат	Methyl N-methylantranilate	Dimethyl anthranilate; 2-Methylamino methyl benzoate; Methyl 2-Methylamonobenzoate; Methyl o-Methylaminobenzoate; Methyl N-methyl-2-aminobenzoate
09.782	2551	2104	10032-083	Гептил циннамат	Heptyl cinnamate	Heptyl-β-phenylacrylate; Heptyl-3-phenyl propenoate; Heptyl 3-phenylprop-2-enoate
09.783	2733	2155	101-41-7	Метил фенилацетат	Methyl phenylacetate	Methyl alpha-toluate; Methyl Alpha-Toluate;
09.784	2452	2156	101-97-3	Этил фенилацетат	Ethyl phenylacetate	Ethyl alpha-toluate; Alpha-Toluic acid, ethyl ester; Ethyl Alpha-Toluate;
09.785	2315	2157	139-70-8	Цитронеллил фенилацетат	Citronellyl phenylacetate	3,7-Dimethyl-6-octen-1-yl phenylacetate; Citronellyl alpha-Toluate; 3,7-Dimethyloct-6-enyl phenylacetate
09.786	2956	2158	4861-85-2	Изопропил фенилацетат	Isopropyl phenylacetate	Isopropyl Alpha-Toluate;
09.787	2209	2159	122-43-0	Бутилфенилацетат	Butyl phenylacetate	Butyl Alpha-Toluate;
09.788	2210	2160	102-13-6	Изобутил фенилацетат	Isobutyl phenylacetate	Isobutyl alpha-toluate; 2-Methylpropyl phenylacetate
09.789	2081	2161	102-19-2	3-Метилбутил фенилацетат	3-Methylbutyl phenylacetate	Isoamyl phenylacetate; Isopentyl phenylacetate; Isoamyl Alpha-Toluate;
09.790	2039	2162	1797-74-6	Аллил фенилацетат	Allyl phenylacetate	Allyl alpha-toluate; 2-Propenyl phenylacetate;
09.791	2985	2163	10486-143	Родинил фенилацетат	Rhodinyl phenylacetate	alpha-Citronellyl phenylacetate; 3,7-Dimethyl-7-octen-1-yl phenylacetate; Rhodinyl alpha-toluate; 3,7-Dimethyloct-7-enyl 2-phenylacetate
09.796	2717	2192	606-45-1	Метил 2-метоксибензоат	Methyl 2-methoxybenzoate	o-Methoxybenzoic acid methyl ester; Dimethyl salicylate; Methyl o-anisate; Methyl salicylate o-methyl ether;
09.797	3157	2243	67028-404	Этил (п-толилокси)ацетат	Ethyl (p-tolyloxy)acetate	Ethyl cresoxyacetate; Vinigar naphtha; Ethyl (4-methylphenoxy)acetate
09.798		2302	617-05-0	Этил ваниллат	Ethyl vanillate	Ethyl 4-hydroxy-3-methoxybenzoate
09.799		2305	3943-74-6	Метил ваниллат	Methyl vanillate	Methyl 4-hydroxy-3-methoxybenzoate
09.801	2767	11862	63449-683	2-Нафтил антранилат	2-Naphthyl anthranilate	2-Naphthyl o-Aminobenzoate; Naph-2-yl 2-aminobenzoate
09.802	3341	10587	2983-36-0	Этил 2-этил-3-фенилпропионат	Ethyl 2-ethyl-3-phenylpropionate	Ethyl alpha-ethyl-dihydrocinnamate; Ethyl benzylbutyrate; Ethyl 2-ethyl-dihydrocinnamate;
09.803	3419	10890	19224-261	Пропиленгликоль дибензоат	Propylene glycol dibenzoate	1,2-Propanediol dibenzoate; Propan-1,2-diyl dibenzoate
09.804	3457	10694	5421-17-0	Гексил фенилацетат	Hexyl phenylacetate	Hexyl Alpha-Toluate; Phenylacetic acid, hexyl ester;
09.805	3633	10682	42436-077	Гекс-3(цис)-енил фенилацетат	Hex-3(cis)-enyl phenylacetate	beta,gamma-Hexenyl alpha-toluate; 3-Hexenyl alpha-toluate; beta, gamma-Hexenyl alpha-toluate; cis-Hexenyl phenylacetate;
09.806	3688	11778	25152-856	Гекс-3-енил	Hex-3-enyl benzoate	3-Hexen-1-ol, benzoate;

				бензоат		
09.807	3734		617-01-6	о-Толил салицилат	o-Tolyl salicylate	2-Methylphenyl 2-hydroxybenzoate; o-Cresyl salicylate; 2-Hydroxy-2-methylphenylbenzoate
09.808		10659	134-28-1	Гвайилацетат	Guaiyl acetate	Guaiol acetate; Guaiacwood acetate; Guaiac acetate; 6,10-Dimethyl-3-(1-methyl ethyl acetate)-bicyclo[5.3.0] dec-1(7)-ene
09.809	3848	10743	15111-974	п-Мента-1,8(10)-диен-9-ил ацетат	p-Mentha-1,8(10)-dien-9-yl acetate	Limonen-9-yl acetate;
09.811	3754		20665-854	Ванилин изобутират	Vanillin isobutyrate	4-Isobutyryl-m-anisaldehyde; 3-Methoxy-4-isobutyrylbenzaldehyde; 4-formyl-2-methoxy-phenyl 2-methylpropionate; 4-Formyl-2-methoxyphenyl 2-methylpropanoate
09.812	3398	10656	614-33-5	Глицерилтрибензоат	Glyceryltribenzoate	Propanetri-1,2,3-yl tribenzoate
09.814		10893	2239-78-3	Пропилгексадеканат	Propylhexadecanoate	Propyl palmitate;
09.816		10892	624-13-5	Пропилоктаноат	Propyl octanoate	Propyl caprylate;
09.818	4213		29548-309	3,7,11-Триметилдодек а-2,6,10-триенил ацетат	(E,Z)-3,7,11-Trimethyldodeca-2,6,10-trienyl acetate	Farnesol acetate
09.820		10906	1731-81-3	Ундецилацетат	Undecyl acetate	
09.821	4218	11887	117-98-6	Ветиверил ацетат	Vetiveryl acetate	Vetiver acetate; Vetivert acetate; 2,6-Dimethyl-9-(1-methylethylidene)-bicyclo[5.3.0]dec-2-en-4-yl acetate
09.825		2307	2049-96-9	Пентил бензоат	Pentyl benzoate	Amyl benzoate; Isoamyl benzoate; 3-Methyl-1-butyl benzoate;
09.829	2348	218	5452-75-5	Этилциклогексил ацетат	Ethyl cyclohexyl acetate	
09.830	3047	205	8007-35-0	Терпинеолацетат	Terpineol acetate	
09.832		10566	21188-614	Этил 3-ацетогексаноат	Ethyl 3-acetohexanoate	
09.840	3648	10889	84788-089	Пропил-2,4-декадиеноат	Propyl-2,4-decadienoate	
09.842	3805		15667939-9	Ментолэтиленгликоль карбонат	Menthol ethylene glycol carbonate	
09.843	3806		30304-826	Ментол 1-(или 2-)пропиленгликоль карбонат	Menthol 1-and 2-propylene glycol carbonate	
09.846	3353	2153	2315-09-5	3-Гексенил формат	3-Hexenyl formate	
09.850	3675	631	27829-727	Этил транс-2-гексеноат	Ethyl trans-2-hexenoate	
09.854	3497	2345	53398-859	цис-3-Гексенил 2-метилбутаноат	cis-3-Hexenyl 2-methylbutanoate	

09.857	2783		63270-144	Нонандиол диацетат	Nonanediol diacetate	Nonane-1,3-diyl diacetate
09.858	3330	2184	67674-413	Фенилметил 2- метил-2-бутеноат	Phenylmethyl 2- methyl-2-butenate	Benzyl tyglate
09.866	4074		6321-45-5	Аллилвалерат	Allyl valerate	Pentanoic acid, 2- propenyl ester; Valeric acid, allyl ester
09.878	4118		61114-247	Эвгенил изовалерат	Eugenyl isovalerate	4- Allyl- 2- methoxyphenyl isovalerate; Butanoic acid, 3- methyl-, 2- methoxy- 4-( 2-propenyl) phenyl ester
09.888	4147		94200-109	Изоборнил 2- метилбутират	Isobornyl 2- methylbutyrate	Butanoic acid, 2- methyl-, 1,7,7-trimethylbicyclo-[2.2.1] hept- 2- yl ester
09.916		10603	7367-90-0	Этил 3- гидроксиоктан оат	Ethyl 3- hydroxyoctanoate	
09.917	4011		1576-85-8	4-Пентенилацетат	4-Pentenyl acetate	
09.918	3967		67452-271	цис-4- Деценилацетат	cis-4-Decenylacetate	
09.920	3992		15632482- 2	2-Изопропил-5- метилциклогексил оксикарбониокси- 2-гидроксипропан	2-Isopropyl-5- methylcyclohexyl oxycarboxyloxy-2- hydroxypropane	DL-Menthol (+\)-propylene glycol carbonat
09.921	3976		54653-257	Этил 5-гексеноат	Ethyl 5-hexenoate	
09.922	3975		39924-271	Этил цис-4- гептеноат	Ethyl cis-4-heptenoate	
09.923	3981		39026-943	Гепт-2-ил бутират	Hept-2-yl butyrate	
09.924	3980		5921-83-5	(+/-)-3- Гептилацетат	(+/-)-3-Heptylacetate	
09.925	4007		60826-155	Нонан-3-ил ацетат	Nonan-3-yl acetate	
09.926	4009		84434-651	Октан-3-ил формат	Octan-3-yl formate	
09.927	2982		141-15-1	Родинил бутират	Rhodinyl butyrate	
09.929	4006		22062122- 7	L-Мономентил глутарат	L-Monomenthylglutar ate	
10.001	2781	178	104-61-0	Нонано-1,4- лактон	Nonano-1,4-lactone	gamma-Nonalactone; 4-Hydroxynonanoic acid gamma-lactone; Aldehyde C-18 (so-called); Prunolide; gamma-Amyl butyrolactone; Nonanolide-1,4;
10.002	3091	179	104-67-6	Ундекано-1,4- лактон	Undecano-1,4-lactone	gamma-Undecalactone; Aldehyde C-14 (so-called); gamma-Undecyl lactone; gamma-Heptyl butyrolactone; 1,4-Hendecanolide;
10.003	2555	180	7779-50-2	Гексадец-6-ено- 1,16-лактон	Hexadec-6-eno-1,16- lactone	Ambrettolide; omega-6-hexadecenlactone; 16-Hydroxy-7-hexadecenoic acid lactone; Cyclohexadecen-7-olide; 6-Hexadecenolide;
10.004	2840	181	106-02-5	Пентадекано-1,15- лактон	Pentadecano-1,15- lactone	Exaltolide; omega-pentadecalactone; Angelica lactone; Muscolactone; 15-Hydroxytetradecanoic acid lactone; 1,15-epoxypentadecan-1-one; Cyclopentadecanolide; 15-Pentadecanolide;



10.005	2952	494	17369-594	3-Пропилиденфталид	3-Propylidene-phthalide	
10.006	3291	615	96-48-0	Бутиро-1,4-лактон	Butyrolactone	4-Hydroxybutanoic acid lactone; gamma-butyrolactone; 1,4-Epoxy butan-1-one; 2-Oxo oxolen; Dihydro-2-(3H) furanone; 3 (or 4)-hydroxybutyric acid, lactone; 1,2-butanolide;
10.007	2361	621	705-86-2	Декано-1,5-лактон	Decano-1,5-lactone	delta-Decalactone; Decanolide-1,5; Amyl-delta-valerolactone; delta-n-Amyl-delta-valerolactone;
10.008	2401	624	713-95-1	Додекано-1,5-лактон	Dodecano-1,5-lactone	delta-Dodecalactone; n-Heptyl-delta-valerolactone; 5-Hydroxydodecanoic acid delta-lactone; delta-Heptyl-delta-valerolactone; Dodecanolide-1,5;
10.009	3780	625	18679-180	Додец-6-ено-1,4-лактон	Dodec-6-eno-1,4-lactone	gamma-Dodecen-6-lactone; 4-Hydroxy-6-dodecenoic acid lactone; Dihydro-5(2-octenyl)-2(3H)-furanone; cis-6-Dodecen-4-olide;
10.010	3167	641	823-22-3	Гексано-1,5-лактон	Hexano-1,5-lactone	delta-hexalactone; 5-Hydroxyhexanoic acid lactone; delta-Caprolactone; 5-Methyl-d-valerolactone; 5-Methyl-5-Hydroxypentanoic acid lactone;
10.011	3294	688	710-04-3	Ундекано-1,5-лактон	Undecano-1,5-lactone	5-Hydroxyundecanoic acid lactone; Undecanolide-1,5; alpha-n-hexyl-delta-valerolactone; 5-n-Hexyl-5-hydroxypentanoic acid lactone;
10.012	3293	731	591-12-8	5-Метилфуран-2(3H)-он	5-Methylfuran-2(3H)-one	4-Hydroxy-3-pentenoic acid lactone; Pent-3-en-1,4-lactone; beta-gamma-Angelica lactone; 5-Methyl-2-(3H)furanone; gamma-Methyl-beta-butenolide;
10.013	3103	757	108-29-2	Пентано-1,4-лактон	Pentano-1,4-lactone	gamma-Valerolactone; 4-Hydroxypentanoic acid lactone; gamma-Methyl-gamma-butyrolactone; gamma-Pentalactone; 4-Valerolactone; 4-Pentanolide;
10.014	3356	2194	3301-94-8	Нонано-1,5-лактон	Nonano-1,5-lactone	delta-Nonalactone; 5-Hydroxynonanoic acid lactone; Nonanolide-1,5; n-Butyl-delta-valerolactone;
10.015	3214	2195	698-76-0	Октано-1,5-лактон	Octano-1,5-lactone	5-Hydroxyoctanoic acid lactone; delta-Octalactone; Tetrahydro-6-propyl-5-hydroxy-2H-pyran-2-one;
10.016	3590	2196	2721-22-4	Тетрадекано-1,5-лактон	Tetradecano-1,5-lactone	delta-Tetradecalactone; 5-Hydroxytetradecanoic acid lactone; 2H-Pyran-2-one, Tetrahydro-6-nonyl-;
10.017	2360	2230	706-14-9	Декано-1,4-лактон	Decano-1,4-lactone	gamma-Decalactone; gamma-n-Decalactone; Decanolide-1,4; gamma-n-Hexyl-gamma-butyrolactone;
10.018	2372	2231	7774-47-2	4-Бутилоктано-1,4-лактон	4-Butyloctano-1,4-lactone	4,4-Dibutyl-4-hydroxybutyric acid, gamma-lactone; 4-Butyl-4-hydroxyoctanoic acid lactone;
10.019	2400	2240	2305-05-7	Додекано-1,4-	Dodecano-1,4-lactone	gamma-Dodecalactone; Dodecanolide-1,4;

				лактон		gamma-n-octyl-gamma-n-butyrolactone; Dodecanolide-1;
10.020	2539	2253	105-21-5	Гептано-1,4-лактон	Heptano-1,4-lactone	Heptanolide-1,4; gamma-Heptalactone; Heptanolide-(4,1); 4-Hydroxyheptanoic acid, gamma-lactone;
10.021	2556	2254	695-06-7	Гексано-1,4-лактон	Hexano-1,4-lactone	gamma-Hexalactone; Hexanolide-1,4; gamma-Ethyl-n-butyrolactone; Tonkalide; gamma-Caprolactone; Ethyl butyrolactone;
10.022	2796	2274	104-50-7	Октано-1,4-лактон	Octano-1,4-lactone	gamma-Octalactone; Octanolide-1,4; gamma-n-Butyl-gamma-butyrolactone;
10.023	3153	2300	698-10-2	5-Этил-3-гидрокси-4-метилфуран-2(5H)-он	5-Ethyl-3-hydroxy-4-methylfuran-2(5H)-one	Emoxyfurone; 2,4-Dihydroxy-3-methyl-2-hexenoic acid, gamma lactone; 2-Ethyl-3-methyl-4-hydroxydihydro-2,5-furan-5-one;
10.024	3333	10083	551-08-6	3-Бутилиденфталид	3-Butylidene-phthalide	
10.025	3334	10084	6066-49-5	3-Бутилфталид	3-Butylphthalide	
10.026	3350	10953	40923-646	3-Гептилдигидро-5-метил-2(3H)-фуранон	3-Heptyldihydro-5-methyl-2(3H)-furanone	alpha-Heptyl-gamma-valerolactone; alpha-n-Heptyl-8-valerolactone;
10.027	3355	11833	499-54-7	3,7-Диметил октано-1,6-лактон	3,7-Dimethyloctano-1,6-lactone	Menthane lactone; 6-Hydroxy-3,7-dimethyl caprylic acid, lactone; 4-Methyl-7-isopropyl-2-oxoheptanone; Menthone lactone;
10.028	3610		16429-213	Додекано-1,6-лактон	Dodecano-1,6-lactone	epsilon-Dodecalactone; 7-Hexyl-2-oxoheptanone;
10.029	3613		5579-78-2	Декано-1,6-лактон	Decano-1,6-lactone	epsilon-Decalactone; 7-Butyl-2-oxoheptanone; 6-Butylhexanolide;
10.030	3634	11834	28664-359	3-Гидрокси-4,5-диметилфуран-2(5H)-он	3-Hydroxy-4,5-dimethylfuran-2(5H)-one	2-Hydroxy-3-methylpent-2-en-1,4-lactone; 2,3-Dimethyl-4-hydroxy-2,5-dihydrofuran-5-one;
10.031	3696	10967	27593-233	6-Пентил-2H-пиран-2-он	6-Pentyl-2H-pyran-2-one	6-Pentyl-alpha-pyrone; 2H-Pyran-2-one, 6-pentyl-;
10.033	3745		34686-710	Дец-7-ено-1,5-лактон	Dec-7-eno-1,5-lactone	2H-Pyran-2-one, tetrahydro-6-(2-pentenyl)-, (Z); 7-Decen-5-olide;
10.034	3755		80417-976	5,6-Дигидро-3,6-диметилбензофуран-2(4H)-он	5,6-Dihydro-3,6-dimethylbenzofuran-2(4H)-one	Dehydromenthofuro-lactone; 2(4H)-Benzofuranone, 5,6-dihydro-3,6-dimethyl-, (R)-;
10.035	3758		68959-284	Ундец-8-ено-1,5-лактон	Undec-8-eno-1,5-lactone	5-Hydroxyundec-8-enoic acid deltalactone; 6-(3-Hexenyl)tetrahydro(2H)pyran-2-one; 2H-Pyran-2-one, 6-(3-hexenyl)tetrahydro-, (Z)-;
10.036	3764		13341-725	5,6,7,7a-Тетрагидро-3,6-диметилбензофуран-2(4H)-он	5,6,7,7a-Tetrahydro-3,6-dimethylbenzofuran-2(4H)-one	2(4H)-Benzofuranone, 5,6,7,7a,-tetrahydro-3,6-dimethyl-; Dehydroxymenthofuro-lactone; Mintlactone
10.037	3744		54814-641	Дец-2-ено-1,5-лактон	Dec-2-eno-1,5-lactone	Massoia lactone;
10.042	4050	11873	774-64-1	3,4-Диметил-5-	3,4-Dimethyl-5-	Bovolide; 4-Hydroxy-2,3-dimethylnona-2,4-

				пентилиденфуран-2(5H)-он	pentylidenefuran-2(5H)-one	dienoic acid lactone;
10.044	3802		16400-729	Додец-2-ено-1,5-лактон	Dodec-2-eno-1,5-lactone	5-Hydroxy-2-dodecenoic acid lactone; Delta-2-dodecenolactone; 6-Heptyl-5,6-dihydro-2-pyrone; 5-Heptyl-2-pentene-5-olide;
10.045		10660	3301-90-4	Гептано-1,5-лактон	Heptano-1,5-lactone	6-Ethyltetrahydro-2H-pyran-2-one;
10.048		10673	730-46-1	Гексадекано-1,4-лактон	Hexadecano-1,4-lactone	
10.049		10674	7370-44-7	Гексадекано-1,5-лактон	Hexadecano-1,5-lactone	tetrahydro-6-undecyl-2H-pyran-2-one;
10.050	4032		92015-651	Дигидроминтлактон	Dihydromintlactone	2(3H)-Benzofuranone, hexahydro-3,6-dimethyl; 3,6-Dimethylcyclohexylacetolactone; 2-(2-Hydroxy-4-methylcyclohexyl)propionic acid gamma lactone
10.051	3786		7011-83-8	5-Гексил-5-метилдигидрофуран-2(3H)-он	5-Hexyl-5-methyldihydrofuran-2(3H)-one	Methyl gamma-decalactone; Dihydrojasmonolactone; 5-hexyldihydro-5-methylfuran-2(3H)-one;
10.053	3803	10535	39212-232	3-Метилоктано-1,4-лактон	3-Methyloctano-1,4-lactone	beta-Methyl-gamma-octalactone; 4-Butyl-3-methyl-1,4-butyrolactone; 5-butyldihydro-4-methylfuran-2(3H)-one;
10.054	4188		21963-268	2-Ноненовой кислоты гамма-лактон	2-Nonenoic acid gamma-lactone	5- Pentyl- 5H- furan- 2- one; 2( 5H)- Furanone, 5- pentyl-; 2- Nonenoic acid, 4- hydroxy-, gamma- lactone
10.055		10907	542-28-9	Пентано-1,5-лактон	Pentano-1,5-lactone	1,5-Valerolactone; delta-Valerolactone;
10.056	4195		87-41-2	Фталид	Phthalide	2- Hydroxymethylbenzoic acid gamma lactone; alpha- Hydroxy- o- toluic acid lactone; 1( 3H)- Isobenzofuranone
10.057	4140		18269977-0	Винныйлактон; 2-(2-Гидрокси-4-метил-3-циклогексенил)пропионовой кислоты гамма-лактон	2-(2-Hydroxy-4-methyl-3-cyclohexenyl)propionic acid gammalactone	Wine lactone; 2( 3H)- Benzofuranone, 3a, 4,5,7a- tetrahydro- 3,6- dimethyl; 3a, 4,5,7a- tetrahydro- 3,6- dimethylbenzofuran-2( 3H)- one
10.058		10902	7370-92-5	Тридекано-1,5-лактон	Tridecano-1,5-lactone	tetrahydro-6-octyl-2H-pyran-2-one;
10.061	3937		70851-615	цис-5-Гексенилдигидро-5-метилфуран-2(3H)-он	cis-5-Hexenyldihydro-5-methylfuran-2(3H)-one	4-Hydroxy-4-methyldec-9-enoic acid lactone; (Z)-5-Hex-3-enyldihydro-5-methylfuran-2(3H)-one;
10.063	4145		28645-514	Гексадек-9-ен-1,16-лактон, Изоамбреттолид	Hexadec-9-en-1,16 lactone, Isoambrettolide	Oxacyclo heptadec-10-en-2-one, 9-Hexadecenoic acid, 16-hydroxy-, omicron-lactone delta-9-Isoambrettolic acid, lactone
10.069	3999		67663-018	3-Метил гамма-Декалактон	3-Methyl gamma-decalactone	
11.001	3219	512	107-85-7	3-Метилбутиламин	3-Methylbutylamine	Isoamylamine; isoPentylamine; 1-Butanamine, 3-methyl-;

11.002	4239	513	78-81-9	Изобутиламин	Isobutylamine	2-Methylpropylamine
11.003	3130	524	109-73-9	Бутиламин	Butylamine	1-Aminobutane;
11.004	4237	601	107-10-8	Пропиламин	Propylamine	
11.005	4240	707	13952-846	втор-Бутиламин	sec-Butylamine	But-2-ylamine; 1-Methylpropylamine
11.006	3220	708	64-04-0	Фенетиламин	Phenethylamine	1-Amino-2-phenylethane; 2-Aminoethylbenzene; 2-Phenylethylamine;
11.007	4215	709	51-67-2	2-(4-Гидроксифенил)этиламин	2-(4-Hydroxyphenyl)ethylamine	Tyramine; 4-(2-aminoethyl)phenol; 4-Hydroxy-phenylethylamine; Tyrosamine;
11.008	3906	2041	551-93-9	2-Аминоацетофенон	2-Aminoacetophenone	1-Acetyl-2-aminobenzene; o-Acetylaniline; 2-Acetylphenylamine; o-Aminoacetophenone; 2-Aminophenyl methyl ketone;
11.009	3241	10497	75-50-3	Триметиламин	Trimethylamine	N,N-Dimethylmethylamine;
11.014	4248		19342-019	N, N-Диметилфенетиламин	N,N-Dimethylphenethylamine	(R)-N,N-Dimethyl-.alpha.-phenylethylamine, (R)-N,N-[alpha]-Trimethylbenzylamine,
11.015	4236	10477	75-04-7	Этиламин	Ethylamine	
11.016	4243	10478	111-26-2	Гексиламин	Hexylamine	
11.018	4238	10480	75-31-0	Изопропиламин	Isopropylamine	2-Aminopropane;
11.019		10483		Метиламин	Methylamine	
11.020	4241	10484	96-15-1	2-Метилбутиламин	2-Methylbutylamine	
11.021	4242	11734	110-58-7	Пентиламин	Pentylamine	Amylamine;
11.023	4246	10496	121-44-8	Триэтиламин	Triethylamine	N,N-diethylethylamine;
11.025	4245	10494	1184-78-7	Триметиламиноксид	Trimethylamineoxide	trimethylamine N-oxide dihydrate;
11.026	4247	10495	102-69-2	Трипропиламин	Tripropylamine	
12.001	2747	125	3268-49-3	3-(Метилтио)-пропионовый альдегид	3-(Methylthio)propionaldehyde	Methional; 3-(Methylthio)propanal; Methylmercaptopropionaldehyde; beta-Methiopropionaldehyde;
12.002	2720	428	13532-188	Метил 3-(метилтио)пропионат	Methyl 3-(methylthio)propionate	Methyl beta-Methylmercapto propionate; Methyl beta-Methiopropionate;
12.003	2716	475	74-93-1	Метантиол	Methanethiol	Methylmercaptan; Thiomethyl alcohol; Methyl sulfhydrate; Mercaptomethane;
12.004	2035	476	870-23-5	Аллилтиол	Allylthiol	2-Propene-1-thiol; 2-Propene-1-thiol; Allyl sulfhydrate;
12.005	2147	477	100-53-8	Фенилметантиол	Phenylmethanethiol	Benzylmercaptan; alpha-Mercaptotoluene; alpha-Toluenethiol; Benzyl hydrosulfide; Benzylthiol; Thiobenzyl alcohol;
12.006	2746	483	75-18-3	Диметил сульфид	Dimethyl sulfide	Methylsulfide; 2-Thiapropane;
12.007	2215	484	544-40-1	Дибутил сульфид	Dibutyl sulfide	Butylsulfide; Di-n-butyl sulphide; Butylthiobutane;
12.008	2028	485	2179-57-9	Диаллилдисульфид	Diallyl disulfide	Allyl disulfide; 2-Propenyl disulphide;

				фид		
12.009	3265	486	2050-87-5	Диаллил трисульфид	Diallyl trisulfide	Allyl trisulfide; Prop-2-enyl-trithio prop-2-ene; Allyl trisulphide;
12.010	3478	526	109-79-5	Бутан-1-тиол	Butane-1-thiol	n-Butyl mercaptan;
12.012	4093	533	110-81-6	Диэтил дисульфид	Diethyl disulfide	
12.013	3275	539	3658-80-8	Диметил трисульфид	Dimethyl trisulfide	Methyl trisulfide; Methyl trithio methane; Methyl trisulphide;
12.014	3228	540	629-19-6	Дипропил дисульфид	Dipropyl disulfide	Propyl disulfide; Propyldithiopropene;
12.015		541	111-47-7	Дипропил сульфид	Dipropyl sulfide	
12.016		542	625-80-9	Ди-изопропил сульфид	Di-isopropyl sulfide	
12.017		546	75-08-1	Этантиол	Ethanethiol	Ethyl mercaptan;
12.018	3282	11665	625-60-5	S-Этил ацетотиоацетат	S-Ethyl acetothioate	Ethyl thioacetate; Acetic acid thio ethyl; Ethanethioic acid, S-ethyl ester; Acetic acid, thioethyl ester;
12.019	3201	585	2179-60-4	Метилпропил дисульфид	Methyl propyl disulfide	Propyl methyl disulfide; Methyl dithio propane; Methyl dithiopropene;
12.020	3308	586	17619-362	Метилпропил трисульфид	Methyl propyl trisulfide	Propyl methyl trisulfide; Methyl trithio propane; Propyl methyl trisulphide;
12.021	4073	600	2179-59-1	Аллилпропил дисульфид	Allyl propyl disulfide	
12.022	3477	725	4532-64-3	Бутан-2,3-дитиол	Butane-2,3-dithiol	2,3-Dimercaptobutane;
12.023	3276	726	6028-61-1	Дипропил трисульфид	Dipropyl trisulfide	Propyl trisulfide; Propyl trithio propane; Propyl trisulphide;
12.024	3502	760	37887-040	3-Меркаптобутан-2-ол	3-Mercaptobutan-2-ol	2-Hydroxy-3-butanethiol; 3-Hydroxy-2-butanethiol; 3-Mercapto-2-butanol;
12.025	2034	2110	57-06-7	Аллил изотиоцианат	Allyl isothiocyanate	3-Isothiocyanatopropene; 2-Propenyl isothiocyanate; AITC; Isothiocyanic acid, allyl ester; 2-Propenyl isothiocyanate; Allyl isosulfocyanate; Allyl thiocarbonimide;
12.026	3536	2175	624-92-0	Диметил дисульфид	Dimethyl disulfide	Methyl disulfide; Methyl disulphide;
12.027	3240	2272	137-06-4	2-Метилбензол-1-тиол	2-Methylbenzene-1-thiol	o-Toluenethiol; 2-Methylthiophenol; o-Tolylmercaptan;
12.028	3448	2320	2550-40-5	Дициклогексил дисульфид	Dicyclohexyl disulfide	Cyclohexyl disulphide;
12.029	3262	2321	1679-07-8	Циклопентантиол	Cyclopentanethiol	Cyclopentyl mercaptan;
12.030	3312	2326	505-79-3	3-(Метилтио)пропил изотиоцианат	3-(Methylthio)propyl isothiocyanate	3-Methylmercaptopropyl isothiocyanate; Isothiocyanic acid, 3-(methylthio)propyl ester;
12.031	3300	2327	67633-970	3-Меркаптопентан-2-он	3-Mercaptopentan-2-one	
12.032	3310	2328	2432-51-1	S-Метил бутантиоат	S-Methyl butanethioate	Methyl thiobutyrate; Methanethiol n-Butyrate; Thiobutyric acid, methyl ester;

12.033	3314	2330	91-60-1	Нафталин-2-тиол	Naphthalene-2-thiol	beta-Thionaphthol; 2-Mercaptonaphthalene; 2-Naphthyl mercaptan; 2-Thionaphthol;
12.034	3514	2331	1191-62-4	Октан-1,8-дитиол	Octane-1,8-dithiol	1,8-Dimercaptooctane; Octamethylene dimercaptan;
12.035	3503	2332	23832-180	2-,3-и 10-Меркаптопинан	2-,3-and 10-Mercaptopinane	Pinanethiol; Pinanyl mercaptan; 2,6,6 Trimethyl-bicyclo[3.1.1]heptane-(2,3 and 10)-thiol
12.036	3509	2353	54957-027	3-[(2-Меркапто-1-метилпропил)тио]бутан-2-ол	3-[(2-Mercapto-1-methylpropyl)thio]butan-2-ol	alpha-Methyl-beta-hydroxypropyl alpha-methyl-beta-mercaptopropyl sulfide; 2-Butanol, 3-[(2-mercapto-1-methylpropyl)thiol-];
12.037	3127	11866	2179-58-0	Аллилметил дисульфид	Allyl methyl disulfide	Methyl allyl disulphide;
12.038	3177	11789	38462-225	8-Меркапто-п-ментан-3-он	8-Mercapto-p-menthan-3-one	8-Mercaptomenthone; Thiomenthone;
12.039	3180	11790	79-42-5	2-Меркаптопропионовая кислота	2-Mercaptopropionic acid	Thiolactic acid; alpha-Mercaptopropionic acid; 2-Thiolpropionic acid;
12.040	3206	11686	23328-623	2-Метилтиоацетальдегид	2-Methylthioacetaldehyde	Methyl mercapto aldehyde; Methylmercapto acetaldehyde;
12.041	3207	11543	13678-585	1-(Метилтио)бутан-2-он	1-(Methylthio)butan-2-one	
12.042	3210	11553	1073-29-6	2-(Метилтио)фенол	2-(Methylthio)phenol	1-Hydroxy-2-methylmercaptobenzene; 2-Methylmercaptophenol;
12.043	3225	11757	882-33-7	Дифенил дисульфид	Diphenyl disulfide	Phenyl disulfide; Biphenyl disulfide; Phenylthiobenzene;
12.044	3227	11699	5905-46-4	Проп-1-енил пропил дисульфид	Prop-1-enyl propyl disulfide	Propyl propenyl disulfide;
12.045	3253	11867	34135-858	Метилаллил трисульфид	Methyl allyl trisulfide	Methyl allyl trisulphide;
12.046	3279	11469	19788-499	Этил 2-меркаптопропионат	Ethyl 2-mercaptopropionate	Ethyl thiolactate; 2-Mercapto propionic acid, ethyl ester;
12.047	3298	11497	40789-988	3-Меркаптобутан-2-он	3-Mercaptobutan-2-one	
12.048	3303	11509	1878-18-8	2-Метилбутан-1-тиол	2-Methylbutane-1-thiol	Amyl mercaptan; 2-Methylbutyl mercaptan; Thioamyl alcohol;
12.049	3304	11510	2084-18-6	3-Метилбутан-2-тиол	3-Methylbutane-2-thiol	sec-Isoamylmercaptan;
12.052	3335	11441	40790-043	Ди-(3-оксобутил)сульфид	Di-(3oxobutyl) sulfide	bis(Butan-3-one-1-yl) sulfide;
12.053	3343	11476	13327-565	Этил 3-(метилтио)пропионат	Ethyl 3-(methylthio)propionate	Ethyl-beta-methylthiopropionate;
12.054	3345	11666	4500-58-7	2-(Этилтио)фенол	2-(Ethylthio)phenol	2-Ethylphenyl mercaptan; 2-Ethylbenzenethiol;

12.055	3357	11498	34619-120	4-Меркаптобутан-2-он	4-Mercaptobutan-2-one	2-Keto-4-butanethiol;
12.056	3374	11687	16630-527	3-(Метилтио)бутаналь	3-(Methylthio)butanal	3-Methyl thio butyraldehyde; 3-Methyl propanethiol; Thio isoamyl aldehyde; Thio isovaleraldehyde;
12.057	3375	11688	34047-397	4-(Метилтио)бутан-2-он	4-(Methylthio)butan-2-one	(4-Methyl)-thio-2-butanone; Methyl propyl thioketone; 4-Methyl-2-butane-thione; 2-Pentane thione;
12.058	3376	11551	23550-405	4-(Метилтио)-4-метилпентан-2-он	4-(Methylthio)-4-methylpentan-2-one	
12.059	3385	11576	2307-10-0	Пропил тиоацетат	Propyl thioacetate	Ethanethioic acid, S-propyl ester; Acetic acid, thiopropyl ester;
12.060	3412	11526	53053-513	Метил 4-(метилтио)бутират	Methyl 4-(methylthio)butyrate	Methyl gamma-methyl mercapto butyrate;
12.061	3414	11542	42919-642	4-(Метилтио)бутаналь	4-(Methylthio)butanal	4-(Methylmercapto)butanal;
12.062	3415	11554	505-10-2	3-(Метилтио)пропан-1-ол	3-(Methylthio)propan-1-ol	Methionol; gamma-Hydroxypropyl methyl sulfide; 3-Methylthio propyl alcohol; Methyl 3-hydroxypropyl sulfide;
12.063	3438	11548	51755-669	3-(Метилтио)гексан-1-ол	3-(Methylthio)hexan-1-ol	3-Methylmercapto-1-hexanol;
12.064	3472	11583	39067-806	Тиогераниол	Thioggeraniol	3,7-Dimethyl-2,6-octadien-1-thiol; 3,7-Dimethyl-2(trans),6-octadiene-1-thiol
12.065	3483	11904	59902-011	2,8-Дитианон-4-ен-4-карбоксальдегид	2,8-Dithianon-4-en-4-carboxaldehyde	5-(Methylthio)-2-(methyl-thio)methylpent-2-en-1-al; 5-Methylthio-2-[(methylthio)methyl]pent-2-enal
12.066	3484	11467	540-63-6	Этан-1,2-дитиол	Ethane-1,2-dithiol	Dithioglycol; 1,2-Dimercaptoethane; Ethylene dithioglycol; Ethylene mercaptan;
12.067	3495	11486	1191-43-1	Гексан-1,6-дитиол	Hexane-1,6-dithiol	1,6-Dimercaptohexane; Hexamethylene dimercaptan;
12.068	3504	11508	699-10-5	Бензилметил дисульфид	Benzyl methyl disulfide	Benzylthiomethane; Methyl phenylmethyl disulfide;
12.069	3513	11558	3489-28-9	Нонан-1,9-дитиол	Nonane-1,9-dithiol	1,9-Dimercaptononane; Nonamethylene dimercaptan;
12.070	3520	11564	814-67-5	Пропан-1,2-дитиол	Propane-1,2-dithiol	1,2-Dimercaptopropane;
12.071	3521	11816	107-03-9	1-Пропан-1-тиол	1-Propane-1-thiol	Propyl mercaptan; n-Thiopropyl alcohol; Propylthiol;
12.072	3528	11909	16128-680	Бутан-1,2-дитиол	Butane-1,2-dithiol	1,2-Dimercaptobutane;
12.073	3529	11910	24330-527	Бутан-1,3-дитиол	Butane-1,3-dithiol	1,3-Dimercaptobutane;
12.074	3533	11912	72869-751	Диаллил полисульфиды	Diallyl polysulfides	2-Propenyl polysulfides; Diallyl di-, tri-, tetra-, and pentasulfides;
12.075	3576	11712	5905-47-5	Метил проп-1-енил дисульфид	Methyl prop-1-enyl disulfide	1-Propenyl methyl disulphide; Methylthio-1-propene;
12.076	3588	11929	109-80-8	Пропан-1,3-дитиол	Propane-1,3-dithiol	1,3-Dimercaptopropane; Trimethylene

						dimercaptan;
12.077	3597		766-92-7	Бензил метил сульфид	Benzyl methyl sulfide	Sulfide, benzyl methyl; Methylthiomethyl benzene;
12.078	3600		20582-858	4-(Метилтио)бутан-1-ол	4-(Methylthio)butan-1-ol	
12.079	3601	11549	40878-726	2-(Метилтиометил)бут-2-еналь	2-(Methylthiomethyl)but-2-enal	2-Ethylidene methional;
12.080	3616	11585	108-98-5	Тиофенол	Thiophenol	Benzenethiol; Phenyl mercaptan;
12.081	3617		150-60-7	Дибензил дисульфид	Dibenzyl disulfide	1,4-Diphenyl-2,3-dithiobutane; alpha-Benzylidithio toluene;
12.082	3666		118-72-9	2,6-(Диметил)тиофенол	2,6-(Dimethyl)thiophenol	2,6-Dimethylbenzenethiol; 2,6-Xylenethiol;
12.083	3677		5466-06-8	Этил 3-меркаптопропионат	Ethyl 3-mercaptopropionate	Ethyl 3-thiopropionate;
12.084	3681		22014-488	Этил 4-(метилтио)бутират	Ethyl 4-(methylthio)butyrate	
12.085	3700		71159-905	p-Мент-1-ен-8-тиол	p-Menth-1-ene-8-thiol	alpha,alpha,4-Trimethyl-3-cyclohexene-1-methanethiol;
12.086	3708		51534-668	Метил 2-(метилтио)бутират	Methyl 2-(methylthio)butyrate	Methylthio 2-methylbutyrate; Butanethioic acid, 2-methyl, S-methyl ester;
12.087	3717		65887-083	2-(Метилтиометил)-3-фенилпропеналь	2-(Methylthiomethyl)-3-phenylpropenal	alpha-Benzylidenemethional; 2-Propenal, 2-(methylthiomethyl)-3-phenyl-;
12.088	2042	11846	592-88-1	Диаллил сульфид	Diallyl sulfide	Allyl sulfide; 2-Propenyl sulphide; Thioallyl ether;
12.089	3836	11475	23366596-8	Этил 3-(метилтио)бутират	Ethyl 3-(methylthio)butyrate	
12.092	3533	11912	72869-751	Диаллил пентасульфид	Diallyl pentasulfide	
12.093	3533	11912	72869-751	Диаллил гексасульфид	Diallyl hexasulfide	
12.094	3533	11912	72869-751	Диаллил гептасульфид	Diallyl heptasulfide	
12.096		11429	10152-768	Аллил метилсульфид	Allyl methyl sulfide	
12.098		11433	33368-820	Аллилпроп-1-енил дисульфид	Allyl prop-1-enyl disulfide	
12.099		11434	33922-702	Аллил пропилсульфид	Allyl propyl sulfide	(2-Propenyl)thiopropene;
12.100		11435	33922-735	Аллил пропил трисульфид	Allyl propyl trisulfide	
12.101	3329	11436	41820-228	Аллил тиопропионат	Allylthiopropionate	
12.102		11863	622-78-6	Бензил	Benzylisothiocyanate	2-Isothiocyanatotoluene;



				ИЗОТИОЦИАНАТ		
12.107	4082	11488	592-82-5	Бутил изотиоцианат	Butylisothiocyanate	4-Isothiocyanato-but-1-ene;
12.108	4096	11454	68084-037	Ди-изопентил тиомалат	Di-isopentyl thiomalate	bis(3-methylbutyl) mercaptosuccinate; Di(3-methylbutyl) but-2(cis)-enebis(thioate)
12.109	3827	11455	4253-89-8	Ди-изопропил дисульфид	Di-isopropyl disulfide	Disulfide, bis(1-methylethyl); Isopropyl disulfide; 2,5-Dimethyl-3,4-dithiohexane; Bis(1-methylethyl)disulfide;
12.113	3825	11450	352-93-2	Диэтил сульфид	Diethyl sulfide	Ethyl thioethane; Ethane, 1,1-thiobis-; Ethyl sulfide; 1,1-Thiobisethane; 3-Thiopentane; Diethylthioether;
12.114		11451	3600-24-6	Диэтил трисульфид	Diethyl trisulfide	
12.116		11459	5756-24-1	Диметил тетрасульфид	Dimethyltetrasulfide	
12.118	3878		1618-26-4	2,4-Дитиапентан	2,4-Dithiapentane	Formaldehyde dimethyl mercaptal; bis[methylmercapto]methane; Formaldehyde dimethyl dithioacetal;
12.120	4108		68398-185	(+/-)-2,8-Эпителио- цис-р-ментан	(+/-)-2,8-Epithio-cis-p- menthane	6- Thiabicyclo[ 3.2.1] octane, 4,7,7-trimethyl-, (Z) -; Zestoril
12.121	3834	11471	23747-435	Этил 2- (метилдитио)пропи- онат	Ethyl 2- (methyldithio)propiona- te	Ethyl alpha-(methyldithio)propionate;
12.122	3835		4455-13-4	Этил 2- (метилтио)ацетат	Ethyl 2- (methylthio)acetate	Ethyl (methylthio)acetate; Ethyl 2-methylthioacetate;
12.126	4041	11478	30453-317	Этил пропил дисульфид	Ethyl propyl disulfide	Ethyl dithiopropane;
12.127		11479	4110-50-3	Этил пропил сульфид	Ethyl propyl sulfide	
12.128	3833		7341-17-5	2-Этилгексан-1- тиол	2-Ethylhexane-1-thiol	
12.130		11485	1639-09-4	Гептан-1-тиол	Heptane-1-thiol	Heptyl mercaptan;
12.132	3842	11487	111-31-9	Гексан-1-тиол	Hexane-1-thiol	Hexyl mercaptan;
12.137	3854		34300-942	3-Меркапто-3- метилбутан-1-ол	3-Mercapto-3- methylbutan-1-ol	1-Butanol, 3-mercapto-3-methyl-; 3-Methyl-3-mercaptobutyl alcohol; 3-Mercapto-3-methylbutyl alcohol;
12.138	3855		50746-106	3-Меркапто-3- метилбутил формат	3-Mercapto-3- methylbutyl formate	3-Methyl-3-thiobutyl formate; 1-Butanol, 3-mercapto-3-methyl, formate ester; 3-Methyl-3-mercaptobutyl formate;
12.139	4159	11880	7217-59-6	2-Меркаптоанизол	2-Mercaptoanisoole	Thioguaiacol; 2-Methoxythiophenol; 2-Methoxybenzenethiol; 2-Methoxybenzene-1-thiol
12.141	3503	2332	23832-180	2-Меркаптопинан	2-Mercaptopinane	pinane-2-thiol; 2,6,6 Trimethyl-bicyclo[3.1.1]heptane-2-thiol
12.142	3503	2332	72361-412	3-Меркаптопинан	3-Mercaptopinane	2,6,6 Trimethyl-bicyclo[3.1.1]heptane-3-thiol
12.143	3856		24653-756	1-Меркаптопропан- 2-он	1-Mercaptopropan- 2-one	Mercaptoacetone;

12.145	3785		94087-839	4-Метокси-2-метилбутан-2-тиол	4-Methoxy-2-methylbutane-2-thiol	
12.146	4003	11525	16630-663	Метил(метилтио)ацетат	Methyl(methylthio)acetate	
12.148	3867		61122-712	S-Метил 4-метилпентантиоат	S-Methyl 4-methylpentanethioate	
12.149	3876		1534-08-3	S-Метилацетотиоат	S-Methylacetothioate	
12.150	3857	11505	5925-68-8	S-Метил бензотиоат	S-Methyl benzothioate	Methane thiobenzoate; S-Methyl thiobenzoate; Methanethiol, benzoate;
12.153	4040	11470	20333-395	Метил этил дисульфид	Methyl ethyl disulfide	
12.154	3860	11474	624-89-5	Метил этил сульфид	Methyl ethyl sulfide	(Methylthio)ethane; Sulfide, ethyl methyl; 1-(Methylthio)ethane; 2-Thiobutane; Ethyl methyl thioether;
12.155	3861		31499-715	Метил этил трисульфид	Methyl ethyl trisulfide	2,3,4-Trithiohexane; Ethyl methyl trisulfide;
12.156	3862	11515	20756-869	S-Метилгексантиоат	S-Methylhexanethioate	
12.157	3864	11506	23747-457	S-Метил изопентантиоат	S-Methyl isopentanethioate	Methane thioisopentanoate; S-methyl 3-methylbutanethioate
12.159		11520	2949-92-0	Метил метантиосульфат	Methyl methanethiosulfonate	
12.161	3872	11532	14173-252	Метил фенил дисульфид	Methyl phenyl disulfide	Phenyl methyl disulfide;
12.162	3873	11533	100-68-5	Метил фенил сульфид	Methyl phenyl sulfide	Thioanisole; Benzene, (methylthio)-; Sulfide, methyl phenyl-; 1-Phenyl-1-thioethane; Methyl phenyl thioether;
12.163		11538	10152-779	Метил проп-1-енил сульфид	Methyl prop-1-enyl sulfide	
12.164		11539	33368-808	Метил проп-1-енил трисульфид	Methyl prop-1-enyl trisulfide	
12.165	4172		5925-75-7	S-Метил пропантиоат	S-Methyl propanethioate	Propanethioic acid, S- methyl ester; S-Methyl thiopropionate
12.166		11541	3877-15-4	Метил пропил сульфид	Methyl propyl sulfide	
12.168	3866		67952-607	2-Метил-2-(метилдитио)пропаналь	2-Methyl-2-(methylthio)propanal	2-Methyl-2-(methylthio)propionaldehyde; 2-(Methylthio)isobutyraldehyde;
12.169	3997	11500	19872-527	2-Метил-4-оксопентан-2-тиол	2-Methyl-4-oxopentane-2-thiol	4-Mercapto-4-methylpentan-2-one;
12.170	3896	11511	5287-45-6	3-Метилбут-2-ен-1-тиол	3-Methylbut-2-ene-1-thiol	
12.171	3858		541-31-1	3-Метилбутан-1-тиол	3-Methylbutane-1-thiol	Isoamyl mercaptan;
12.173	3874	11536	513-44-0	2-Метилпропан-1-тиол	2-Methylpropane-1-thiol	Isobutyl mercaptan;

12.174		11537	75-66-1	2-Метилпропан-2-тиол	2-Methylpropane-2-thiol	tert-Butylmercaptan;
12.175	3875		67-68-5	Метилсульфинилметан	Methylsulfinylmethane	Dimethyl-sulfoxide-(INN); Methyl sulfoxide; Dimethyl sulfoxide; DMSO;
12.176	3881		583-92-6	4-(Метилтио)-2-оксомасляная кислота	4-(Methylthio)-2-oxobutyric acid	
12.179	4004	11545	5271-38-5	2-(Метилтио)этан-1-ол	2-(Methylthio)ethan-1-ol	2-(methylthio)ethanol; 2-hydroxyethyl methyl sulfide;
12.187	3879		74758-933	Метилтиометилбутират	Methylthiomethyl butyrate	
12.188	3880		74758-911	Метилтиометилгексаноат	Methylthiomethyl hexanoate	
12.191	4333		110-66-7	Пентан-1-тиол	Pentane-1-thiol	Amyl hydrosulfide, Amyl mercaptan, Amyl sulfhydrate, Pentyl mercaptan
12.192	3792		2084-19-7	Пентан-2-тиол	Pentane-2-thiol	sec-Amylmercaptan; 1-Methylbutanethiol; 2-Mercaptopentane;
12.193	4014	11495	2257-09-2	Фенетил изотиоцианат	Phenethyl isothiocyanate	
12.194	3894	11561	4410-99-5	2-Фенилэтан-1-тиол	2-Phenylethane-1-thiol	
12.195	3895		33049-933	S-Пренил тиоацетат	S-Prenyl thioacetate	Ethanethioic acid, S-(3-methyl-2-buten-1-yl) ester; Thioacetic acid, S-(3-methyl-but-2-en-1-yl) ester; 3-Methylbut-2-enyl acetothioate
12.197	3897	11565	75-33-2	Пропан-2-тиол	Propane-2-thiol	Isopropyl mercaptan;
12.198	4021		42347444-2	2,3,5-Тритиагексан	2,3,5-Trithiahexane	Trithiahexane; 2,3,5-Methyl (methylthio) methyl disulfide; (Methyldithio) (methylthio) methane; 2,4,5-Trithiahexane;
12.199	4210		507-09-5	Тиоуксусная кислота	Thioacetic acid	Ethanethioic acid; Thiolacetic acid; Acetothioic acid
12.201	3809		94293-57-9	8-Ацетилтио-п-ментанон-3	8-Acetylthio-p-menthanone-3	
12.203	3788		74586-09-7	Метилтио 2-(ацетокси)пропионат	Methylthio 2-(acetyloxy)propionate	
12.211	3820		32951-19-2	Бут-1-енил метил сульфид	But-1-enyl methyl sulphide	
12.212	3978		1618-26-4	Этил 5-(Метилтио)валерат	Ethyl 5-(methylthio)valerate	bis(Methylthio)methane, 2,4-Dithiapentane, Formaldehyde dimethyl dithioacetal, Formaldehyde dimethyl mercaptal, Bis(methyl mercapto) methane, Methylene bis(methyl sulfide) Thioformaldehyde dimethyl acetal, Pentanoic acid, 5-(methylthio)-, ethyl ester
12.214	4150		127931-219	(+/-)-Изобутил 3-метилтиобутират	(+/-)-Isobutyl 3-methylthiobutyrate	2- Methylpropyl 3-( methylthio) butyrate; 2-Methylpropyl 3-( methylthio) butanoate; Isobutyl 3-( methylthio) butyrate, 2-

						Methylpropyl 3-(methylthio) butyrate
12.217	3850	51755-83-0	3-Меркаптогексан-1-ол	3-Mercaptohexan-1-ol		3-Thiohexanol; 3-Thiohexan-1-ol;
12.218	3865		Метил-3-метил-1-бутенил дисульфид	Methyl-3-methyl-1-butenyl disulphide		
12.227	3790		Метилтио-2-(пропионилокси)пропионат	Methylthio-2-(propionyloxy)propionate		
12.234	3851	136954-206	3-Меркаптогексил ацетат	3-Mercaptohexyl acetate		
12.235	3852	136954-217	3-Меркаптогексил бутират	3-Mercaptohexyl butyrate		
12.236	3789	51755-85-2	3-(Метилтио)гексил ацетат	3-(Methylthio)hexyl acetate		
12.237	3883	16630-55-0	3-(Метилтио)пропил ацетат	3-(Methylthio)propyl acetate		3-Acetoxypropyl methyl sulfide; 1-Propanol, 3-(methylthio)-, acetate; Methionyl acetate;
12.238	3996	227456-271	3-Меркапто-2-метилпентан-1-ол	3-Mercapto-2-methylpentan-1-ol		
12.239	3994	227456-282	3-Меркапто-2-метилпентаналь	3-Mercapto-2-methylpentanal		
12.240	4214	6540-86-9	2,4,6-Тритиагептан	2,4,6-Trithiaheptane		bis-( Methylthiomethyl) sulfide
12.241	3995	258823-391	2-Меркапто-2-метилпентан-1-ол	2-Mercapto-2-methylpentan-1-ol		
12.242	4185	29414-47-9	Метилтиометил меркаптан	Methylthiomethylmercaptan		Methanethiol, 1- methylthio-; (Methylthio) methanethiol
12.244	3882	14109-729	1-Метилтио-2-пропанон	1-Methylthio-2-propanone		
12.249	3996	22745627-1	3-Меркапто-2-метилпентанол (смесь стерео изомеров)	3-Mercapto-2-methylpentanol (mixture of stereoisomers)		
12.251	3853	13695422-8	3-Меркаптогексил гексаноат	3-Mercaptohexyl hexanoate		
12.252	4158	31539-841	(+/-)-4-Меркапто-4-метил-2пентанол	(+/-)-4-Mercapto-4-methyl-2-pentanol		2-Pentanol, 4-mercapto-4-methyl
12.253	4025	72437-684	Амил метил дисульфид	Amyl methyl disulfide		2,3-Dithiaoctane, 1-Methyldisulfanyl-pentane
12.254	4027	63986-038	Бутил этил дисульфид	Butyl ethyl disulfide		3,4-Dithiaoctane, 1-Ethyldisulfanyl-butane
12.255	3977	15647294-5	Этил 3-меркаптобутират	Ethyl 3-mercaptobutyrate		Disulfide, butyl ethyl; 1-Ethyldisulfanylbutane; 3,4-Dithiaoctane
12.256	4042	31499-704	Этил пропил трисульфид	Ethyl propyl trisulfide		3,4,5-Trithianonane
12.257	3974	10422851-5	Этил 4-(ацетилтио)бутират	Ethyl 4-(acetylthio)butyrate		

12.261	4097		6725-64-0	Димеркаптометан	Dimercaptomethane	
12.264	4157		92585-085	4-Меркапто-2-пентанон	4-Mercapto-2-pentanone	4-Mercaptopentan-2-one
13.001	2702	119	620-02-0	5-Метилфурфурол	5-Methylfurfural	5-Methyl-2-furaldehyde; 5 Methyl-2-furaldehyde
13.002	2703	358	611-13-2	Метил 2-фуруат	Methyl 2-furoate	Methyl furoate; Methyl pyromucate; Furan-alpha-carboxylic acid, methyl ester;
13.003	2946	359	615-10-1	Пропил 2-фуруат	Propyl 2-furoate	Propyl furan-2-carboxylate; n-Propyl pyromucate;
13.004	2030	360	4208-49-5	Аллил2-фуруат	Allyl 2-furoate	Allyl furan-2-carboxylate; Allyl pyromucate; 2-Propenyl furan-2-carboxylate; 2-Propenyl 2-furoate;
13.005	2571	361	39251-860	Гексил 2-фуруат	Hexyl 2-furoate	
13.006	2865	362	7149-32-8	Фенетил 2-фуруат	Phenethyl 2-furoate	2-Phenylethyl 2-furoate;
13.007	2898	489	3208-40-0	2-(3-Фенилпропил)тетра гидрофуран	2-(3-Phenylpropyl)tetrahydrofuran	2-Hydrocinnamyl tetrahydrofuran; alpha-(3-phenylpropyl)-tetrahydrofuran;
13.009	2381	535	119-84-6	3,4-Дигидрокумарин	3,4-Dihydrocoumarin	Dihydrocoumarin; 1,2-Benzodihydropyrone; Hydrocoumarin; 2-Chromanone; 2-Oxochroman; o-Hydroxydihydrocinnamic acid lactone;
13.010	3174	536	3658-77-3	4-Гидрокси-2,5-диметилфуран-3(2H)-он	4-Hydroxy-2,5-dimethylfuran-3(2H)-one	Furaneol; 2,5-Dimethyl-4-hydroxy-2,3-dihydrofuran-3-one;
13.011		545	623-20-1	Этил фурфуракрилат	Ethyl furfuracrylate	Ethyl 3-(2-furyl)prop-2-enoate
13.012	2699	579	92-48-8	6-Метилкумарин	6-Methylcoumarin	5-Methyl-2-hydroxyphenylpropenoic acid lactone; 6-Methyl-2H-1-benzopyran-2-one; 6-Methylbenzopyrone; 6-Methyl-1,2-benzopyrone
13.015	3476	722	28588-730	бис-(2,5-Диметил-3-фурил) дисульфид	bis-(2,5-Dimethyl-3-furyl) disulfide	3,3(1)-Dithiobis(2,5-dimethylfuran);
13.016	3259	723	28588-752	бис-(2-Метил-3-фурил)дисульфид	bis-(2-Methyl-3-furyl) disulfide	2-Methyl-3-furyl disulphide; 3,3'-Dithio-2,2'-dimethyldifuran;
13.017	3260	724	28588-763	бис-(2-Метил-3-фурил)тетрасульфид	bis-(2-Methyl-3-furyl) tetrasulfide	2-Methyl-3-furyl tetrasulphide; 3,3'-Tetrathio-bis(2-methylfuran);
13.018	2489	2014	98-01-1	Фурфурол	Furfural	Furfuraldehyde; 2-Furancarboxaldehyde; Fural; 2-Formylfuran; 2-Furaldehyde; Pyromucic aldehyde; 2-Furylcarboxaldehyde;
13.019	2491	2023	98-00-0	Фурфуриловый спирт	Furfuryl alcohol	2-Furancarbinol; Furfuralcohol; alpha-Furylcarbinol; 2-Furylcarbinol; 2-Hydroxymethylfuran;
13.020	3056	2029	97-99-4	Тетрагидрофурфуриловый спирт	Tetrahydrofurfuryl alcohol	Tetrahydro-2-furancarbinol; Tetrahydro-2-furanmethanol; Tetrahydro-2-furylmethanol;

13.021	2070	2080	7779-66-0	Изопентил 4-(2-фуран)бутират	Isopentyl 4-(2-furan)butyrate	Isopentyl furyl-2-butyrate; Isoamyl furfurylpropionate; 3-Methylbutyl 2-furanbutyrate; alpha-Isoamyl furfurylpropionate; 3-Methylbutyl 4-(2-furan)butanoate
13.022	2435	2091	10031-900	Этил 3(2-фурил)пропионат	Ethyl 3(2-furyl)propionate	Ethyl 2-furanpropionate; Ethyl furfurylacetate; Ethyl furylpropionate;
13.023	2071	2092	7779-67-1	Изопентил 3-(2-фуран)пропионат	Isopentyl 3-(2-furan)propionate	Isoamyl furylpropionate; Isoamyl furfurylacetate; Isoamyl furfurhydracrylate; alpha-Isoamyl furfurylacetate; 3-Methylbutyl 3-(2-furan)propanoate
13.024	2198	2093	105-01-1	Изобутил 3-(2-фурил)пропионат	Isobutyl 3-(2-furyl)propionate	Isobutyl 2-furanpropionate; Isobutyl furfurylacetate; Isobutyl-2-furanpropionate; 2-Methylpropyl 3-(2-furyl)propanoate
13.025	2072	2109	1334-82-3	Пентил 2-фуруат	Pentyl 2-furoate	Amyl 2-furoate; Amyl furan-2-carboxylate; Pentyl furan-2-carboxylate;
13.026	2493	2202	98-02-2	2-Фуранметантиол	2-Furanmethanethiol	Furfuryl mercaptan; 2-Furylmethane thiol; alpha-Furfuryl mercaptan;
13.027	2076	2205	65504-963	2-Пентил-5 или 6-кето-1,4-диоксан	2-Pentyl-5 or 6-keto-1,4-dioxane	5-Pentyl-1,4-dioxan-2-one;
13.028	2204	2206	65504-452	2-Бутил-5 или 6-кето-1,4-диоксан	2-Butyl-5 or 6-keto-1,4-dioxane	5-Butyl-1,4-dioxan-2-one;
13.029	4106	2208	625-86-5	2,5-Диметилфуран	2,5-Dimethylfuran	
13.030	4179	2209	534-22-5	2-Метилфуран	2-Methylfuran	
13.031	3128	2247	4265-16-1	2-Бензофуранкарбоксальдегид	2-Benzofurancarboxaldehyde	2-Formylbenzofuran;
13.032	3161	2248	1883-78-9	Фурфурил изопропил сульфид	Furfuryl isopropyl sulfide	Isopropyl furfuryl sulphide;
13.033	3162	2250	13678-687	S-Фурфурил ацетотиоат	S-Furfuryl acetothioate	Furfuryl thioacetate;
13.034	2494	2252	623-30-3	3-(2-Фурил)акриальдегид	3-(2-Furyl)acrylaldehyde	Furyl acrolein; 2-Furanacrolein; Furylacrolein; 3-(2-Furyl)prop-2-enal
13.035	3235	2265	494-90-6	Ментофуран	Menthofuran	3,9-Epoxy-p-mentha-3,8-diene; 4,5,6,7-Tetrahydro-3,6-dimethylbenzofuran
13.036		2267		Метил фурфуракрилат	Methyl furfuracrylate	Methyl 3-(2-furyl)prop-2-enoate
13.037	3236	2269	16409-431	2-(2-Метилпроп-1-енил)-4-метилтетрагидропиран	2-(2-Methylprop-1-enyl)-4-methyltetrahydropyran	Rose oxide; Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran; Rose oxide levo;
13.038	3468	2309	50626-023	2-Фенил-3-карбэтоксифуран	2-Phenyl-3-carbethoxyfuran	Phenyl oxaromate; Ethyl 2-Phenyl-3-furoate; Ethyl 2-phenyl-3-furoate
13.039	3525	2319	22694-968	2,4,5-Триметилдельта-3оксазолин	2,4,5-Trimethyldelta-3-oxazoline	2,4,5-Trimethyl-2,5-dihydrooxazole; 3-Oxazoline, 2,4,5-trimethyl;

13.040	3481	2323	65505-160	2,5-Диметил-3-тиофурилфуран	2,5-Dimethyl-3-thiofuroylfuran	S-(2,5-Dimethyl-3-furyl) thio-2-furoate;
13.041	3482	2324	55764-288	2,5-Диметил-3-(изопентилтио)фуран	2,5-Dimethyl-3-(isopentylthio)furan	S-(2,5-Dimethyl-3-furyl) thioisovalerate; 2,5-Dimethyl-3-(3-methylbutylthio)furan
13.042	3373	2338	3188-00-9	4,5-Дигидро-2-метилфуран-3(2H)-он	4,5-Dihydro-2-methylfuran-3(2H)-one	Tetrahydro-2-methyl-3-oxofuran; 2-Methyltetrahydrofuran-3-one; Dihydro-2-methyl-3-furanone; Dihydrofuranone-3(2H)-, 2-methyl;
13.043	2492	11885	770-27-4	Фурфурилен-2-бутаналь	Furfurylidene-2-butanal	Furfurylidene-2-butyraldehyde; 3-Ethyl-3(2-furyl)-2-propenal; 2-Ethyl-3(2-furyl)acrolein; 3(2-furyl)-2-ethylacrolein;
13.044	2495	11838	623-15-4	4-(2-Фурил)бут-3-ен-2-он	4-(2-Furyl)but-3-en-2-one	Furfurylidine acetone; Furfuralacetone;
13.045	2496	11837	6975-60-6	1-(2-Фурил)пропан-2-он	1-(2-Furyl)-propan-2-one	Furfuryl methyl ketone; 2-Acetonifuran; Furyl acetone; Methyl furfuryl ketone;
13.046	2704	11878	874-66-8	3-(2-Фурил)-2-метилпроп-2-еналь	3-(2-Furyl)-2-methylprop-2-enal	2-Furfurylidenepropionaldehyde; 2-Methyl-3-furylacrolein; alpha-Methyl-beta-furylacrolein; Furfurylidene-2-propanal;
13.047	2945	11842	623-22-3	Пропил 3-(2-фурил)акрилат	Propyl 3-(2-furyl)acrylate	Propyl furanacrylate; Propyl furylacrylate; Propyl 3(2-furyl)prop-2-enoate
13.048	3057	11841	2217-33-6	Тетрагидрофурфурил бутират	Tetrahydrofurfuryl butyrate	Tetrahydro-2-furylmethyl n-Butanoate; Tetrahydrofurfuryl n-Butyrate;
13.049	3058	11843	637-65-0	Тетрагидрофурфурил пропионат	Tetrahydrofurfuryl propionate	2-Tetrahydrofurylmethyl propionate;
13.050	3146	11480	4437-20-1	Дифурфурил дисульфид	Difurfuryl disulfide	Bis-(2-furfuryl)disulfide; 2-Furfuryl disulphide;
13.051	3158	11770	59020-905	2-Фурфурил тиоформат	2-Furfuryl thioformate	2-Furylmethanethiol formate; Furfurylthio formate;
13.052	3159	10944	13679-464	Фурфурил метиловый эфир	Furfuryl methyl ether	Methyl furfuryl ether;
13.053	3160	11482	1438-91-1	Метил фурфурил сульфид	Methyl furfuryl sulfide	
13.054	3163	11653	1192-62-7	2-Ацетилфуран	2-Acetylfuran	2-Furyl methyl ketone; Methyl 2-Furyl ketone;
13.055	3188	11678	28588-741	2-Метилфуран-3-тиол	2-Methylfuran-3-thiol	2-Methyl-3-furylmercaptan;
13.056	3238	11438	13678-676	Дифурфурил сульфид	Difurfuryl sulfide	2,2'-(Thiodimethylene)-difuran; 2-Furfuryl monosulphide; Difurfuryl monosulphide;
13.057	3283	10642	13678-609	Фурфурил изовалерат	Furfuryl isovalerate	Furfuryl 3-methylbutanoate
13.058	3307	10355	31704-800	3-(5-Метил-2-фурил)бутаналь	3-(5-Methyl-2-furyl)butanal	2 Furanpropanal, beta,5-dimethyl-; 3-(5-Methyl-2-furyl)butyraldehyde;
13.059	3317	10966	3777-69-3	2-Пентилфуран	2-Pentylfuran	2-Amylfuran;
13.060	3320	11821	65505-251	Тетрагидрофурфурил циннамат	Tetrahydrofurfuryl cinnamate	Cinnamic acid, tetrahydrofurfuryl ester; Tetrahydro-2-furylmethyl 3-

						phenylpropenoate; Tetrahydro-2-furylmethyl cinnamate; Tetrahydrofurfuryl 3-phenylprop-2-enoate
13.061	3337	10930	4437-22-3	Дифурфуриловый эфир	Difurfuryl ether	Furfuryl ether;
13.062	3346	10646	623-19-8	Фурфурилпропионат	Furfuryl propionate	Furfuryl propanoate;
13.063	3347	11484	59020-858	S-Фурфурил пропанттиоат	S-Furfuryl propanethioate	Furfuryl thiopropionate;
13.064	3362	11513	57500-002	Метил фурфурил дисульфид	Methyl furfuryl disulfide	Furfuryl methyl disulphide; Methyl 2-furylmethyl disulphide;
13.065	3366	11550	13678-596	2-Метил-5-(метилтио)фуран	2-Methyl-5-(methylthio)furan	Methyl 5-methyl-2-furyl sulfide; (5-Methylfuryl-2)-thiomethane;
13.066	3391	10921	10599-709	3-Ацетил-2,5-диметилфуран	3-Acetyl-2,5-dimethylfuran	2,5-Dimethyl-3-acetylfuran;
13.067	3396	10645	39252-034	Фурфурилоктаноат	Furfuryl octanoate	alpha-Furfuryl caprylate;
13.068	3397	10647	36701-016	Фурфурил валерат	Furfuryl valerate	Furfuryl pentanoate; alpha-Furfuryl pentanoate; alpha-Furfuryl valerate;
13.069	3401	10952	3777-71-7	2-Гептилфуран	2-Heptylfuran	
13.070	3418	11180	14360-500	2-Гексаноилфуран	2-Hexanoylfuran	2-Furyl pentyl ketone;
13.071	3451	11457	55764-233	2,5-Диметилфуран-3-тиол	2,5-Dimethylfuran-3-thiol	2,5-Dimethyl-3-mercaptofuran; 2,5-Dimethyl-3-furylmercaptan;
13.072	3471	10514	3738-00-9	1,5,5,9-Тетраметил-13-оксатрицикло [8.3.0.0.(4.9)]тридекан	1,5,5,9-Tetramethyl-13-oxatricyclo [8.3.0.0.(4.9)]tridecane	Tetramethyl-perhydronaphtofuran;
13.073	3518	10864	39251-882	Октил 2-фуроат	Octyl 2-furoate	Octyl 2-furancarboxylate;
13.074	3535	11913	3782-00-1	2,3-Диметилбензофуран	2,3-Dimethylbenzofuran	
13.075	3538	11915	61295-510	2,6-Диметил-3-((2-метил-3-фурил)тио)гептан-4-он	2,6-Dimethyl-3-((2-methyl-3-furyl)thio)heptan-4-one	1,3-Diisopropylacetyl-2-methyl-3-furyl sulfide; 3((2-methyl-3-furyl)thio)-2,6-dimethyl-4-heptanone;
13.076	3549	11917	65620-500	6-Гидроксидигидротиаспирин	6-Hydroxydihydrothe aspirane	6-Hydroxy-2,6,10,10-tetramethyl-1-oxaspiro(4,5)decane; 2,6,10,10-Tetramethyl-1-oxaspiro[4.5]decan-6-ol
13.077	3570	11922	61295-418	3-((2-Метил-3-фурил)тио)гептан-4-он	3-((2-Methyl-3-furyl)thio)heptan-4-one	1,3-Diethylacetyl 2-methyl-3-furyl sulfide;
13.078	3571	11923	61295-509	4-((2-Метил-3-фурил)тио)нонан-5-он	4-((2-Methyl-3-furyl)thio)nonan-5-one	1,3-Dipropylacetyl 2-methyl-3-furyl sulfide;
13.079	3573	11924	65505-171	Метил 2-метил-3-фурил дисульфид	Methyl 2-methyl-3-furyl disulfide	
13.082	3607		61197-099	Пропил 2-метил-3-фурил дисульфид	Propyl 2-methyl-3-furyl disulfide	2-Methyl-3-furyl propyl disulphide;



13.083	3609	11038	1193-79-9	2-Ацетил-5-метилфуран	2-Acetyl-5-methylfuran	Methyl 5-methyl-2-furyl ketone; Ethanone, 1-(5-methyl-2-furanyl)-; 1-(5-methyl-2-furyl)ethanone;
13.084	3623		27538-096	2-Этил-4-гидрокси-5-метил-3(2H)-фуранон	2-Ethyl-4-hydroxy-5-methyl-3(2H)-furanone	5-Ethyl-4-hydroxy-2-methyl-3(2h)-furanone
13.085	3635	11785	19322-271	4-Гидрокси-5-метилфуран-3(2H)-он	4-Hydroxy-5-methylfuran-3(2H)-one	2,3-Dihydro-4-hydroxy-5-methylfuran-3-one; 5-Methyl-4-hydroxy-3(2H)-furanone;
13.086	3636		26486-146	4,5-Дигидро-2-метил-3-тиоацетоксифуран	4,5-Dihydro-2-methyl-3-thioacetyfuran	2-Methyl-4,5-dihydro-3-furanthiol acetate; 4,5-Dihydro-2-methyl-3-furanthiol acetate;
13.087	3651		57893-273	6-Ацетоксидигидротиаспиран	6-Acetoxydihydrotheaspirane	2,6,10,10-Tetramethyl-1-oxaspiro(4.5)dec-6-yl acetate; 2,6,10,10-Tetramethyl-1-oxaspiro[4.5]decan-6-yl acetate
13.088	3661		1786-08-9	3,6-Дигидро-4-метил-2-(2-метилпроп-1-ен-1-ил)-2H-пиран	3,6-Dihydro-4-methyl-2-(2-methylprop-1-en-1-yl)-2H-pyran	3,6-Dihydro-4-methyl-2-(2-methyl-1-propenyl)-2H-pyran;
13.089	3664		4077-47-8	2,5-Диметил-4-метоксифуран-3(2H)-он	2,5-Dimethyl-4-methoxyfuran-3(2H)-one	Mesifurane; 4-Methoxy-2,5-dimethyl-3-furanone;
13.090	3665	10937	7416-35-5	2,2-Диметил-5-(1-метилпроп-1-енил)тетрагидрофуран	2,2-Dimethyl-5-(1-methylprop-1-enyl)tetrahydrofuran	Tetrahydrofuran, 2,2-dimethyl-5-(1-methyl-1-propenyl)-;
13.091	3672		53833-300	4,5-Диметил-2-этилоксазол	4,5-Dimethyl-2-ethyloxazole	
13.092	3673	11706	3208-16-0	2-Этилфуран	2-Ethylfuran	2-Ethyloxole;
13.093	3674		94278-270	Этил 3-(2-фурфурилтио)пропионат	Ethyl 3-(2-furfurylthio)propionate	Ethyl beta-furfuryl alpha-thiopropionate; Ethyl beta-furfuryl-alpha-thiopropionate;
13.094	3735	10976	7392-19-0	2,6,6-Триметил-2-винилтетрагидропиран	2,6,6-Trimethyl-2-vinyltetrahydropyran	Bois de rose oxide;
13.095	3743	11882	41239-489	2,5-Диэтилтетрагидрофуран	2,5-Diethyltetrahydrofuran	Tetrahydrofuran, 2,5-diethyl-; Furan, 2,5-diethyltetrahydro-;
13.096	3746	2214	5989-33-3	Линалоол оксид В	5(2-Hydroxyisopropyl)2-methyl-2-vinyltetrahydrofuran	Linalool oxide B (cis, 5-ring);
13.097	3759	11944	13679-862	Ангидролиналоол оксид (5)	Anhydrolinalool oxide (5)	Anhydro linalool oxide; Dehydroxy linalool oxide; 2-(1-Methylene-ethyl)-5-methyl-5-vinyltetrahydrofuran
13.098	3774	10515	36431-728	Тиаспиран	Theaspirane	1-Oxaspiro-2,6,10,10-tetra-methyl[4.5]dec-6-ene-; 2,6,10,10-Tetramethyl-1-oxaspiro[4.5]dec-6-ene
13.099	3797		4166-20-5	4-Ацетокси-2,5-	4-Acetoxy-2,5-	

				диметилфуран-3(2H)-он	dimethylfuran-3(2H)-one	
13.100		11941	13678-734	2-Ацетил-1-фурфурилпирро л	2-Acetyl-1-furfurylpyrrole	
13.101	4071		22940-869	2-Ацетил-3,5-диметилфуран	2-ACETYL-3,5-DIMETHYLFURAN	Ethanone, 1-(3,5-dimethyl-2-furanyl)-; Ketone, 3,5-dimethyl-2-furyl methyl; 3,5-Dimethyl-2-furyl methyl ketone
13.103	4081	10927	4466-24-4	2-Бутилфуран	2-Butylfuran	
13.105	4083	11045	10011353-9	2-Бутирилфуран	2-Butyrylfuran	2-Furyl propyl ketone;
13.106	4090		83469-85-6	2-Децил фуран	2-Decylfuran	
13.107	4095		64280-326	2,4-Дифурфурилфуран	2,4-Difurfurylfuran	
13.109		10931	17092-921	Дигидроактинидио лид	Dihydroactinidiolide	2,2,6-Trimethyl-7-oxa-bicyclo[4.3.0]non-9-ene
13.112		11379	53833-322	4,5-Диметил-2-пропилоксазол	4,5-Dimethyl-2-propyloxazole	
13.116	4034		55764-222	2,5-Диметил-3-фурантиолацета т	2,5-Dimethyl-3-furanthiol acetate	S-(2,5-Dimethyl-3-furyl) ethanethioate, Thioacetic acid S-(2,5-dimethyl-furan-3-yl) ester
13.117	4104		65330-496	2,5-Диметил-4-этокси-3(2H)-фуранон	2,5-Dimethyl-4-ethoxy-3(2H)-furanone	3(2H)-Furanone, 4-ethoxy-2,5-dimethyl-; 2,3-Dihydro-2,5-dimethyl-4-ethoxy-3-furanone; 2,5-Dimethyl-2,3-dihydro-4-ethoxyfuran-3-one; 2,5-Dimethyl-4-ethoxy-2H-furan-3-one
13.119		11066	14400-670	2,5-Диметилфуран-3(2H)-он	2,5-Dimethylfuran-3(2H)-one	
13.121		11870		7-Этокси-4-метилкумарин	7-Ethoxy-4-methylcoumarin	
13.122		10588	614-99-3	Этил 2-фуروات	Ethyl 2-furoate	
13.123	4114	10940	6270-56-0	Этил фурфуриловый эфир	Ethyl furfuryl ether	2-(Ethoxymethyl)furan;
13.125		10942	1703-52-2	2-Этил-5-метилфуран	2-Ethyl-5-methylfuran	
13.127		10643	13678-610	Фурфурил 2-метилбутират	Furfuryl 2-methylbutyrate	
13.128	2490	2065	623-17-6	Фурфурил ацетат	Furfuryl acetate	
13.130		638	623-21-2	Фурфурил бутират	Furfuryl butyrate	
13.133		10641	6270-55-9	Фурфурил изобутират	Furfuryl isobutyrate	Furfuryl 2-methylpropanoate
13.134	3284	2317	1438-94-4	1-Фурфурилпирро л	1-Furfurylpyrrole	1-furfuryl-1H-pyrrole;
13.136		10098	88-14-2	2-Фуранкарбоновая кислота	2-Furoic acid	2-Furancarboxylic acid

13.137	3586	11928	65545-815	3-(2-Фурил)-2-фенилпроп-2-еналь	3-(2-Furyl)-2-phenylprop-2-enal	
13.138	4120	11084	699-17-2	1-(2-Фурил)бутан-3-он	1-(2-Furyl)butan-3-one	4-(2-Furyl) butan-2-one;
13.139		11112	67-47-0	5-Гидроксиметилфурфурол	5-Hydroxymethylfurfuraldehyde	5-(Hydroxymethyl)-2-furaldehyde;
13.140	3746	11876	1365-19-1	Линалоол оксид (5-колец)	Linalool oxide (5-ring)	5-(1-hydroxy-1-isopropyl)-2-methyl-2-vinyl tetrahydrofuran
13.142	3311	11547	13679-613	S-Метил 2-фурантиокарбоксилат	S-Methyl 2-furanthiocarboxylate	Furoylthiomethane; Methyl thio-2furoate;
13.145		11522	13679-602	Метил 5-метилфурфурил сульфид	Methyl 5-methylfurfuryl sulfide	
13.148	4174		15186-513	3-Метил-2(3-метилбут-2-ен-1-ил)фуран	3-Methyl-2-(3-methylbut-2-enyl)furan	2-(3-Methyl-2-butenyl)-3-methylfuran, alpha-Naginatene; gamma- Clausenane; Rosefuran;Furan, 3- methyl- 2-( 3- methyl- 2-butenyl) -
13.150	4175		5555-90-8	3-(5-Метил-2-фурил)проп-2-еналь	3-(5-Methyl-2-furyl)prop-2-enal	3-( 5- Methylfuryl) acrolein; 1-( 5- Methyl-2- furanyl)- 1- propen- 3- al; 3-( 5- Methyl-2- furanyl)- 2- propenal; 5- Methyl- 2- furanacrolein; 2- Propenal, 3-( 5- methyl- 2- furanyl) -
13.151	3189	2287	65530-532	2-Метил-3,5 и 6-(фурфурилтио)пиразин	2-Methyl-3,5 and 6-(furfurylthio)pyrazine	Methyl(furfurylthio)pyrazine (mixture of isomers);
13.152	3949		63012-975	2-Метил-3-(метилтио)фуран	2-Methyl-3-(methylthio)furan	Dimethylthiofurane;
13.153	3973		55764-255	2-Метил-3-фурилтиоацетат	2-Methyl-3-furyl thioacetate	Ethanethioic acid, S-(2-methyl-3-furanil) ester, 3-(Acetylthio)-2-methylfuran; 3-(Acetylthio)-2-methylfuran,
13.155		11158	10599-696	2-Метил-5-пропионилфуран	2-Methyl-5-propionylfuran	1-(5-methyl-2-furyl)propan-1-one;
13.157	4176		3511-32-8	5-Метил-3(2H)-фуранон	5-Methyl-3( 2H)-furanone	3( 2H)-Furanone, 5-methyl
13.158		10964		2-Метилтетрагидрофуран	2-Methyltetrahydrofuran	tetrahydro-2-methylfuran;
13.160	3787		57124-875	2-Метилтетрагидрофуран-3-тиол	2-Methyltetrahydrofuran-3-thiol	
13.161	3791		4430-31-3	Октагидрокумарин	Octahydrocoumarin	Bicyclononalactone; Cyclohexyl lactone; Octahydro-2H-1-benzopyran-2-one; Octahydro-1(2H)-benzopyran-2-one
13.162		10965	4179-38-8	2-Октилфуран	2-Octylfuran	
13.163	4192		3194-17-0	2-Пентаноилфуран	2-Pentanoylfuran	1-( 2- Furanyl)- 1- pentanone; Butyl 2- furyl ketone; 1- Pentanone, 1-( 2- furanyl) -; 1-

						Pentanone, 1-(2-furyl) -
13.164		10971		2-Пропилфуран	2-Propylfuran	
13.165	3822		5552-30-7	6,7,8,8a-Тетрагидро-2,5,5,8a-тетраметил-5Н-1-бензопиран	6,7,8,8a-Tetrahydro-2,5,5,8a-tetramethyl-5H-1-benzopyran	Cycloionone
13.166	3055	2069	637-64-9	Тетрагидрофурфурил ацетат	Tetrahydrofurfuryl acetate	
13.169		11424	20662-844	Триметилоксазол	Trimethyloxazole	2,4,5-trimethyloxazole;
13.175	4070		22940-869	4-Ацетил-2,5-диметил-3(2Н)-фуранон	4-Acetyl-2,5-dimethyl-3(2H)-furan	3(2H)-Furanone, 4-acetyl-2,5-dimethyl-
13.187		10970		2-Пропионил-3-метил-фуран	2-Propionyl-3-methylfuran	
13.188	3189		59303-070	2-Метил-3-фурфурилтиопиразин	2-Methyl-3-furfurylthiopyrazine	
13.190	4056		61295-441	3-[(2-Метил-3-фурил)тио]-2-бутанон	3-[(2-Methyl-3-furyl)thio]-2-butanone	2-Butanone, 3-[(2-methyl-3-furanyl)thio]-; 3-[(2-Methyl-3-furyl)sulfanyl]-2-butanone; 3-[(2-Methyl-3-furanyl)sulfanyl]-2-butanone; 3-(2-Methyl-3-furylthio)-2-butanone
13.191	4043		37659542-5	О-Этил S-(2-фурилметил)тиокарбонат	O-Ethyl S-(2-furylmethyl)thiocarbonate	O-Ethyl S-(furan-2-ylmethyl)thiocarbonate; O-Ethyl S-(2-furanylmethyl)thiocarbonate; Carbonothioic acid, O-ethyl S-(2-furanylmethyl) ester;
13.193	3971		26486-215	2,5-Диметилтетрагидро-3-фурантиол	2,5-Dimethyltetrahydro-3-furanthiol	O-Ethyl S-(2-furanylmethyl)carbonothioate; Ethoxy carbonyl furfurylthiol
13.194	3972		25273639-3	2,5-Диметилтетрагидро-3-фурил тиоацетат	2,5-Dimethyltetrahydro-3-furyl thio acetate	
13.196	3840		18003178-1	4-(Фурфурилтио)пентан-2-он	4-(Furfurylthio)pentan-2-one	
13.197	3979		25273636-0	Фурил пропилдисульфид	Furyl propyldisulfide	
14.001	2978	487	119-65-3	Изохинолин	Isoquinoline	2-Azanaphthalene; 2-Benzazine; 3,4-Benzopyrine; BenzoPyrine;
14.002		488	491-35-0	4-Метилхинолин	4-Methylquinoline	Lepidine;
14.003	2909	492	94-62-2	Пиперин	Piperine	1-Piperoylpiperidine; Piperoylpiperidine; 1-(5-(3,4-Methylenedioxyphenyl)-1-oxo-2,4-pentadienyl)piperidine
14.004	3019	493	83-34-1	3-Метилиндол	3-Methylindole	Skatole; 3-Methyl-4,5-benzopyrrole; Beta-Methylindole;
14.005	3136	534	15707-241	2,3-Диэтилпиразин	2,3-Diethylpyrazine	

14.006	3155	548	15707-230	2-Этил-3-метилпиразин	2-Ethyl-3-methylpyrazine	
14.007	2593	560	120-72-9	Индол	Indole	Benzopyrrole; 1-benzazole; 1-Benzazole; 1-BenzoPyrrole; 2,3-Benzopyrrole;
14.008	2966	604	110-86-1	Пиридин	Pyridine	Azine; Azabenzene;
14.010	2908	675	110-89-4	Пиперидин	Piperidine	Hexahydropyridine; Hexazana; Pentamethylenimine;
14.011	2976	715	130-89-2	Хинина гидрохлорид	Quinine hydrochloride	Quinine chloride; Quinine monohydrochloride;
14.014	3338	720	36267-717	5,7-Дигидро-2-метилтиено(3,4-d)пиримидин	5,7-Dihydro-2-methylthieno(3,4-d)pyrimidine	
14.015	3321	721	34413-359	5,6,7,8-Тетрагидрохинокса лин	5,6,7,8-Tetrahydroquinoxaline	Cyclohexapyrazine; Tetrahydroquinoxaline;
14.016	3149	727	27043-056	2,5-Диметил-3-этилпиразин	2,5-Dimethyl-3-ethylpyrazine	
14.017	3154	728	13360-640	2-Этил-5-метилпиразин	2-Ethyl-5-methylpyrazine	2-Methyl-5-ethyl pyrazine; 2-Methyl-5-ethylpyrazine;
14.018	3237	734	1124-11-4	2,3,5,6-Тетраметилпиразин	2,3,5,6-Tetramethylpyrazine	
14.019	3244	735	14667-551	2,3,5-Триметилпиразин	2,3,5-Trimethylpyrazine	
14.020	3272	2210	123-32-0	2,5-Диметилпиразин	2,5-Dimethylpyrazine	2,5-Dimethyl-1,4-diazine; Glycoline; Ketine; 2,5-Dimethyl-1,4-diazine; 2,5-Dimethylparadiazine; 2,5-Dimethylpiazine;
14.021	3273	2211	108-50-9	2,6-Диметилпиразин	2,6-Dimethylpyrazine	2,6-Dimethyl-1,4-diazine; 2,6-Dimethyl-1,4-diazine; 2,6-Dimethylparadiazine; 2,6-Dimethylpiazine;
14.022	3281	2213	13925-003	Этилпиразин	Ethylpyrazine	2-Ethyl pyrazine; 2-Ethyl-1,4-diazine; 2-Ethyl-1,4-diazine;
14.023		2217	96-54-8	1-Метилпиррол	1-Methylpyrrole	N-Methylpyrrole;
14.024	3150	2245	13925-070	2-Этил-3,5-диметилпиразин	2-Ethyl-3,5-dimethylpyrazine	2,6-Dimethyl-3-ethylpyrazine;
14.025	3183	2266	63450-306	2,5 или 6-Метокси-3-метилпиразин	2,5 or 6-Methoxy-3-methylpyrazine	Methylmethoxypyrazine;
14.026	3554	2268	13925-058	2-Изопропил-5-метилпиразин	2-Isopropyl-5-methylpyrazine	5-Isopropyl-2-methylpyrazine; 2-Methyl-5-isopropylpyrazine;
14.027	3309	2270	109-08-0	2-Метилпиразин	2-Methylpyrazine	2-Methyl-1,4-diazine;
14.028	3203	2271	13708-128	5-Метилхинокса лин	5-Methylquinoxaline	
14.029	3727	2277	65504-930	1-Фенил-(3 или 5)-пропилпиразол	1-Phenyl-(3 or 5)-propylpyrazole	1-Phenyl-3 or 5-propyl-1,2-diazole;
14.030	3232	2279	2044-73-7	2-Пиридин метантиол	2-Pyridine methanethiol	2-Mercaptomethylpyridine; 2-Pyridylmethanethiol; 2-Pyridylmethyl mercaptan;

14.031	3230	2285	35250-534	Пиразинэтантиол	Pyrazineethanethiol	2-Pyrazinylethanethiol; Pyrazinyl ethanethiol;
14.032	3126	2286	22047-252	Ацетилпиразин	Acetylpyrazine	2-Acetylpyrazine; Methyl pyrazinyl ketone;
14.034	3231	2288	21948-709	Пиразинил метил сульфид	Pyrazinyl methyl sulfide	2-Methylthiopyrazine; Pyrazinylmethyl methyl sulphide; (Methylthio)pyrazine
14.035	3208	2290	67952-652	2-Метил-3,5или 6-метилтиопиразин	2-Methyl-3,5 or 6-methylthiopyrazine	Methyl(methylthio)pyrazine (mixture of isomers);
14.037	3306	2314	23747-480	6,7-Дигидро-5-метил-5Н-циклопентапиразин	6,7-Dihydro-5-methyl-5H-cyclopentapyrazine	
14.038	3251	2315	1122-62-9	2-Ацетилпиридин	2-Acetylpyridine	Methyl-2-pyridyl ketone; 2-Acetopyridine;
14.039	3424	2316	350-03-8	3-Ацетилпиридин	3-Acetylpyridine	beta-Acetylpyridine; Methyl 3-pyridyl ketone; Methyl Beta-Pyridyl ketone; Methyl pyridyl ketone;
14.041	3386	2318	109-97-7	Пиррол	Pyrrrole	Azole; Divinyleneimine; Imidole;
14.042	2744	2339	91-62-3	6-Метилхинолин	6-Methylquinoline	p-Methylquinoline; p-Toluquinoline;
14.043	3132	11338	24683-009	2-Изобутил-3-метоксипиразин	2-Isobutyl-3-methoxy pyrazine	2-Butyl-3-methoxy pyrazine; 2-Methoxy-3-isobutyl pyrazine;
14.044	3133		13925-069	2-Изобутил-3-метилпиразин	2-Isobutyl-3-methylpyrazine	2-Butyl-3-methylpyrazine; 2-methyl-3-isobutylpyrazine; 2-(2-Methylpropyl)-3-methylpyrazine
14.045	3147	11371	39741-418	2-Ацетил-1-этилпиррол	2-Acetyl-1-ethylpyrrole	1-Ethyl-2-acetylazole;
14.046	3184	11373	932-16-1	2-Ацетил-1-метилпиррол	2-Acetyl-1-methylpyrrole	1-Methylpyrrol-2-yl methyl ketone; 2-Acetyl-n-methyl pyrrol; Methyl 1-methylpyrrol-2-yl ketone;
14.047	3202	11721	1072-83-9	2-Ацетилпиррол	2-Acetylpyrrole	Methyl-2-pyrrolyl ketone; 2-Acetopyrrole; 2-Pyrrolyl methyl ketone;
14.049	3250	11293	32974-928	2-Ацетил-3-этилпиразин	2-Acetyl-3-ethylpyrazine	2-Ethyl-3-pyrazinyl methyl ketone; 2-Acetyl 3-ethyl-1,4-diazine;
14.050	3271	11323	5910-89-4	2,3-Диметилпиразин	2,3-Dimethylpyrazine	2,3-Dimethyl-1,4-diazine;
14.051	3280	11329	68739-004	2,5 или 6-Метокси-3-этилпиразин	2,5 or 6-Methoxy-3-ethylpyrazine	3-Ethyl-(5 or 6)-methoxy pyrazine; 5 or 6-Methoxy-3-ethyl-pyrazine; 2,5 or 6-methoxy-3-ethylpyraxine;
14.052	3296	11341	38713-416	Изопропенилпиразин	Isopropenylpyrazine	2-Isopropenyl-1,4-diazine; (1-Methylene-ethyl)pyrazine
14.053	3299	11502	59021-022	Меркаптометилпиразин	Mercaptomethylpyrazine	Pyrazine methanethiol;
14.054	3302	11347	3149-28-8	Метоксипиразин	Methoxy pyrazine	2 Methoxy-1,4-diazine;
14.055	3327	11294	54300-082	2-Ацетил-3,5-диметилпиразин	2-Acetyl-3,5-dimethylpyrazine	
14.056	3336	11303	18138-040	2,3-Диэтил-5-метилпиразин	2,3-Diethyl-5-methylpyrazine	
14.057	3358	11344	25773-404	2-Изопропил-3-метоксипиразин	2-Isopropyl-3-methoxy pyrazine	

14.058	3370	11395	6304-24-1	2-Изобутилпиридин	2-Isobutylpyridine	2-Butylpyridine; 2-(2-Methylpropyl)pyridine
14.059	3371	11396	14159-616	3-Изобутилпиридин	3-Isobutylpyridine	3-Butylpyridine; 3-(2-Methylpropyl)pyridine
14.060	3383	11412	2294-76-0	2-Пентилпиридин	2-Pentylpyridine	2-Amylpyridine;
14.061	3394	11386	536-78-7	3-Этилпиридин	3-Ethylpyridine	Beta-Ethylpyridine; Beta-Lutidine;
14.062	3433	11300	24168-705	2-(втор-Бутил)-3-метоксипиразин	2-(sec-Butyl)-3-methoxypyrazine	2-But-2-yl-3-methoxypyrazine; 2-Methoxy-3-sec-Butylpyrazine; 2-(1-Methylpropyl)-3-methoxypyrazine
14.063	3470	11364	91-22-5	Хинолин	Quinoline	1-Benzazine; 2,3-Benzopyrine; Benzopyrine; Chinolein; Leucoline; 1-Azanephtalene; Leucol; 2,3-Benzopyridine
14.064	3523	10491	123-75-1	Пирролидин	Pyrrolidine	Tetramethylenimine; Tetrahydropyrrole
14.065	3540	11381	108-48-5	2,6-Диметилпиридин	2,6-Dimethylpyridine	2,6-Lutidine;
14.066	3546	11385	104-90-5	5-Этил-2-метилпиридин	5-Ethyl-2-methylpyridine	5-Ethyl-2-picoline; 2-Methyl-5-ethylpyridine;
14.067	3569	11921	32737-147	2-Метил-3,5 или 6-этоксипиразин	2-Methyl-3,5 or 6-ethoxypyrazine	
14.068	3614	11942	1073-26-3	2-Пропионилпиррол	2-Propionylpyrrole	Ethyl 2-pyrrolyl ketone;
14.069	3631		28217-927	Циклогексилметилпиразин	Cyclohexylmethylpyrazine	2-Pyrazine cyclohexyl methyl; 2-Pyrazinyl cyclohexyl methyl;
14.070	3654		67860-382	4-Ацетил-2-метилпиримидин	4-Acetyl-2-methylpyrimidine	Ethanone, 1-(2-methyl-4-pyrimidinyl)-;
14.071	3709		93-60-7	Метил никотинат	Methyl nicotinate	3-Carbomethoxypyridine; Methyl 3-pyridinecarboxylate
14.072	3751		2110-18-1	2-(3-Фенилпропил)пиридин	2-(3-Phenylpropyl)pyridine	
14.076	3183	2266	2847-30-5	2-Метокси-(3,5 или 6)-метилпиразин	2-Methoxy-(3,5 or 6)-methylpyrazine	
14.077	3280	11329	68739-004	2-Этил-(3,5 или 6)-метоксипиразин (85%) и 2-метил-(3,5 или 6)-метоксипиразин (13%)	2-Ethyl-(3,5 or 6)-methoxypyrazine (85%) and 2-Methyl-(3,5 or 6)-methoxypyrazine (13%)	
14.078	3358	11344	93905-034	2-Изопропил-(5 или 6)-метоксипиразин	2-Isopropyl-(5 or 6)-methoxypyrazine	
14.080	4249		99583-296	2-Ацетил-1-пирролин	2-Acetyl-1-pyrroline	
14.082	3964	11296	23787-806	2-Ацетил-3-метилпиразин	2-Acetyl-3-methylpyrazine	
14.084		11297	22047-274	2-Ацетил-5-метилпиразин	2-Acetyl-5-methylpyrazine	
14.086		11295	34413-348	2-Ацетил-6-	2-Acetyl-6-	

				этилпиразин	ethylpyrazine	
14.087		11298	22047-263	2-Ацетил-6-метилпиразин	2-Acetyl-6-methylpyrazine	
14.095	3916	11305	18138-051	3,5-Диэтил-2-метилпиразин	3,5-Diethyl-2-methylpyrazine	2,6-Diethyl-3-methylpyrazine;
14.096	3915	11304	32736-917	2,5-Диэтил-3-метилпиразин	2,5-Diethyl-3-methylpyrazine	
14.097		11306	13238-841	2,5-Диэтилпиразин	2,5-Diethylpyrazine	
14.098	3917	11309	38917-623	6,7-Дигидро-2,3-диметил-5Н-циклопентапиразин	6,7-Dihydro-2,3-dimethyl-5H-cyclopentapyrazine	
14.100	3149	727	55031-157	3,(5-или 6-) Диметил-2-этилпиразин	3,(5-or 6)Dimethyl-2-ethylpyrazine	2,(5 or 6)- Dimethyl-3-ethylpyrazine; 2-Ethyl-3,5(6)-dimethyl pyrazine; 3-Ethyl-2,5(6)-dimethyl pyrazine;
14.101		11318	40790-203	2,5-Диметил-3-изопропилпиразин	2,5-Dimethyl-3-isopropylpyrazine	
14.104	4389		108-47-4	2,4-Диметилпиридин	2,4-Dimethylpyridine	
14.106		11382	591-22-0	3,5-Диметилпиридин	3,5-Dimethylpyridine	
14.107		11383	625-84-3	2,5-Диметилпиррол	2,5-Dimethylpyrrole	2,5-dimethyl-1H-pyrrole;
14.109	3569	11325	32737-147	2-Этокси-3-метилпиразин	2-Ethoxy-3-methylpyrazine	
14.111	3149	2246	13360-651	3-Этил-2,5-диметилпиразин	3-Ethyl-2,5-dimethylpyrazine	
14.112	3280	11329	25680-584	2-Этил-3-метоксипиразин	2-Ethyl-3-methoxypyrazine	
14.114	3919	11331	13925-036	2-Этил-6-метилпиразин	2-Ethyl-6-methylpyrazine	2-Methyl-6-ethylpyrazine; 6-Methyl-2-ethylpyrazine;
14.115		11767	100-71-0	2-Этилпиридин	2-Ethylpyridine	
14.116		11387	536-75-4	4-Этилпиридин	4-Ethylpyridine	
14.121	3358	11344	93905-034	2-Изопропил-(3,5 или 6)-метоксипиразин	2-Isopropyl-(3,5 or 6)-methoxypyrazine	
14.122		11342	67952-594	2-Изопропил-3-метилтиопиразин	2-Isopropyl-3-methylthiopyrazine	2-(1-methylethyl)-3-(methylthio)pyrazine
14.123	3940	11343	29460-900	Изопропилпиразин	Isopropylpyrazine	(2-Methylpropyl)pyrazine
14.124		11400	644-98-4	2-Изопропилпиридин	2-Isopropylpyridine	
14.126	3183	2266	2847-30-5	2-Метокси-3-метилпиразин	2-Methoxy-3-methylpyrazine	2-Methyl-3-methoxypyrazine;
14.133	4244		109-05-7	2-Метилпиперидин	2-Methylpiperidine	2- Pípecoline; (+/-)- alpha- Pípecoline; (+/-)- 2- Methylpiperidine; alpha- Methylpiperidine; alpha- Pípecoline; DL- 2- Methylpiperidine



14.134		11415	109-06-8	2-Метилпиридин	2-Methylpyridine	alpha-Picoline; 2-Picoline;
14.135		11801	108-99-6	3-Метилпиридин	3-Methylpyridine	beta-Picoline; 3-Picoline;
14.136		11416	108-89-4	4-Метилпиридин	4-Methylpyridine	gamma-Picoline; 4-Picoline;
14.138		11358	91-63-4	2-Метилхинолин	2-Methylquinoline	Quinaldine;
14.141	4250		110-85-0	Пиперазин	Piperazine	1,4- Diazocyclohexane; 1,4- Piperazine; Antiren; Diethylenediamine; Dispermine; Eraverm; Hexahydropyrazine; Lumbrical; Piperizidine; Pipersol; Pyrazine hexahydride; Uvilon; Vermex; Worm- a- Ton; Wurmirazin
14.142	3961	11362	18138-039	Пропилпиразин	Propylpyrazine	2-Proylpyrazine
14.143		11419	4673-31-8	3-Пропилпиридин	3-Propylpyridine	
14.144	4015	11363	290-37-9	Пиразин	Pyrazine	
14.145		11393	1003-29-8	Пиррол-2-карбальдегид	Pyrrole-2-carbaldehyde	2-Formylpyrrole;
14.147		11365	91-19-0	Хиноксалин	Quinoxaline	1,4-Benzodiazine;
14.152	2977	717	6119-70-6	Хининасульфат	Quinine sulphate	
14.161		11310		6,7-Дигидро-2,5-диметил-5Н-циклопентапиразин	6,7-Dihydro-2,5-dimethyl-5H-cyclopentapyrazine	
14.164	4065		622-39-9	2-Пропилпиридин	2-Propylpyridine	Conyrine, 2-n-Propylpyridine, 1-(2-Pyridyl)propane
15.001	3062	478	7774-74-5	2-Меркаптотиофен	2Mercaptothiophene	2-Thionyl mercaptan; 2-Thiophenethiol;
15.002	3192	736	38205-640	2-Метил-5-метокситиазол	2-Methyl-5-methoxythiazole	5-Methoxy-2-methylthiazole;
15.004	3209	2203	13679-704	5-Метил-2-тиофенкарбальдегид	5-Methyl-2-thiophenecarbaldehyde	2-Formyl-5-methylthiophen; 2-Thiophene carboxaldehyde,5-methyl; 2-Thiophenecarbaldehyde,5-methyl-;
15.005	3145	2237	65505-182	2,4-Диметил-5-винилтиазол	2,4-Dimethyl-5-vinylthiazole	
15.006	3450	2322	55704-784	2,5-Дигидрокси-2,5-диметил-1,4-дитиан	2,5-Dihydroxy-2,5-dimethyl-1,4-dithiane	2,5-Dimethyl-2,5-dihydroxy-p-dithiane;
15.007	3270	2325	38325-256	спиро(2,4-Дитиа-1-метил-8-оксабицикло[3.3.0]октан-3,3'-(1'-окса-2'-метил)-циклопентан) и спиро(Дитиа-6-метил-7-оксабицикло[3.3.0]октан-3,3'-(1'-окса-2-метил)циклопентан)	spiro(2,4-Dithia-1-methyl-8-oxa-bicyclo[3.3.0]octane-3,3'-(1'-oxa-2'-methyl)cyclopentane) and spiro(Dithia-6-methyl-7-oxa-bicyclo[3.3.0]octane-3,3'-(1'-oxa-2-methyl)cyclopentane)	Spiro [dithia-6-methyl-7-oxabicyclo [3.3.0] octane-3,3alpha-(1alpha-oxa-2-methyl)cyclopentane] (isomere component);
15.008	3323	2333	6911-51-9	2-Тиенил	2-Thienyl disulfide	2,2-Dithiodithiophene; 2,2alpha-

				дисульфид		Dithiodithiophene;
15.009	3475	2334	828-26-2	Тритиоацетон	Trithioacetone	2,2,4,4,6,6-Hexamethyl-s-Trithiane; 2,2,4,4,6,6-Hexamethyl-1,3,5-trithiane
15.010	3817	2335	29926-418	2-Ацетил-2-тиазолин	2-Acetyl-2-thiazoline	Acetyl thiazoline-2; 2-Acetyl-4,5-dihydrothiazole;
15.011	3267	2336	38205-606	5-Ацетил-2,4-диметилтиазол	5-Acetyl-2,4-dimethylthiazole	2,4-Dimethyl-5-acetylthiazole; 2,4-Dimethyl-5-thiazoyl methyl ketone;
15.012	3266	2337	1003-04-9	4,5-Дигидротиофен-3(2H)-он	4,5-Dihydrothiophen-3(2H)-one	3-Tetrahydrothiophenone; 3-Thiophenone; Tetrahydrothiophen-3-one; Dihydrothiophenone;
15.013	3134	11618	18640-749	2-Изобутилтиазол	2-Isobutylthiazole	Thiazole, 2-isobutyl; 2-(2-Methylpropyl)thiazole
15.014	3204	11621	137-00-8	5-(2-Гидроксиэтил)-4-метилтиазол	5-(2-Hydroxyethyl)-4-methylthiazole	4-Methyl-5-thiazole ethanol; Sulfurol; 5-Thiazoleethanol, 4-methyl-;
15.015	3205	11620	656-53-1	4-Метил-5-(2-ацетоксиэтил)тиазол	4-Methyl-5-(2-acetoxyethyl)thiazole	4-Methyl-5-thiazoleethanol acetate; 5-Thiazoleethanol, 4-methyl-, acetate;
15.016	3256	11594	95-16-9	Бензотиазол	Benzothiazole	
15.017	3274	11606	3581-91-7	4,5-Диметилтиазол	4,5-Dimethylthiazole	
15.018	3313	11633	1759-28-0	4-Метил-5-винилтиазол	4-Methyl-5-vinylthiazole	Thiazole, 4-methyl-5-vinyl;
15.019	3325	11650	13623-115	2,4,5-Триметилтиазол	2,4,5-Trimethylthiazole	
15.020	3328	11726	24295-032	2-Ацетилтиазол	2-Acetylthiazole	Methyl-2-thiazoyl ketone; Ethanone, 1-(2-thiazoyl)-; 2-Thiazoyl methyl ketone;
15.021	3340	11611	15679-193	2-Этокситиазол	2-Ethoxythiazole	2-Thiazoyl ethyl ether; Ethyl 2-thiazoyl ether;
15.022	3372	11598	18277-275	2-(втор-Бутил)тиазол	2-(sec-Butyl)thiazole	2-But-2-ylthiazole; Thiazole, 2-sec-butyl-; 2-(1-Methylpropyl)thiazole
15.023	3512	11601	13679-851	4,5-Дигидро-2-метилтиофен-3(2H)-он	4,5-Dihydro-2-methylthiophene-3(2H)-one	2-Methyltetrahydrothiophen-3-one; 2-Methyl-4,5-3-thiophenone; 2-Methylthiolan-3-one; Dihydrothiophenone-3(2H), 2-methyl-;
15.024	3527	11603	2530-10-1	3-Ацетил-2,5-диметилтиофен	3-Acetyl-2,5-dimethylthiophene	2,5-Dimethyl-3-thienyl methyl ketone; Ethanone, 1-(2,5-dimethyl-3-thienyl)-;
15.025	3541	11883	23654-924	3,5-Диметил-1,2,4-тритиолан	3,5-Dimethyl-1,2,4-trithiolane	
15.026	3555		15679-137	2-Изопропил-4-метилтиазол	2-Isopropyl-4-methylthiazole	Thiazole, 2-isopropyl-4-methyl-;
15.027	3611		43039-981	2-Пропионилтиазол	2-Propionylthiazole	Thiazole, 2-propionyl-;
15.028	3615	11642	288-47-1	Тиазол	Thiazole	
15.029	3619		65894-828	2-(втор-Бутил)-4,5-диметил-3-тиазолин	2-(sec-Butyl)-4,5-dimethyl-3-thiazoline	2,5-Dihydro-4,5-dimethyl-2-but-2-ylthiazole; 2-(1-Methylpropyl)-4,5-dimethyl-3-thiazoline
15.030	3620		76788-460	4,5-Диметил-2-	4,5-Dimethyl-2ethyl-3-	2-Ethyl-4,5-dimethyl-3-thiazoline;

				этил-3-тиазолин	thiazoline	
15.032	3621		65894-839	4,5-Диметил-2-изобутил-3-тиазолин	4,5-Dimethyl-2-isobutyl-3-thiazoline	4,5-Dimethyl-2-(2-methylpropyl)-3-thiazoline; 3-Thiazoline, 4,5-dimethyl-2-(2-methylpropyl)-;
15.033	3680	11612	15679-126	2-Этил 4-метилтиазол	2-Ethyl 4-methylthiazole	
15.034	3705		5616-51-3	2-Метил-1,3-дитиолан	2-Methyl-1,3-dithiolane	
15.035	3716	11627	693-95-8	4-Метилтиазол	4-Methylthiazole	
15.036	3718		43040-013	3-Метил-1,2,4-триан	3-Methyl-1,2,4-trithiane	
15.037		11590	13679-726	2-Ацетил-3-метилтиофен	2-Acetyl-3-methylthiophene	1-(3-methyl-2-thienyl)ethan-1-one?;
15.038		11589	7533-07-5	2-Ацетил-4-метилтиазол	2-Acetyl-4-methylthiazole	
15.040		11728	88-15-3	2-Ацетилтиофен	2-Acetylthiophene	Methyl 2-thienyl ketone;
15.043		11596	54411-062	2-Бутил-5-этилтиофен	2-Butyl-5-ethylthiophene	
15.044		11597	37645-617	2-Бутилтиазол	2-Butylthiazole	
15.049	4030		54644-289	3,5-Диэтил-1,2,4-тридиофан	3,5-Diethyl-1,2,4-trithiolane	1,2,4-Trithiolane, 3,5-diethyl-, (+/-)
15.057	3782		10469140-9	4,6-Диметил-2-(1-метилэтил)дигидро-1,3,5-дитиазин	4,6-Dimethyl-2-(1-methylethyl)dihydro-1,3,5-dithiazine	2(4)-Isopropyl-4(2),6-dimethyldihydro-4H-1,3,5-dithiazine;
15.062		11605	541-58-2	2,4-Диметилтиазол	2,4-Dimethylthiazole	
15.063	4035		4175-66-0	2,5-Диметилтиазол	2,5-Dimethylthiazole	
15.064		11609	638-02-8	2,5-Диметилтиофен	2,5Dimethylthiophene	Thiazole, 2,5-dimethyl-
15.066	3831		505-29-3	1,4-Дитиан	1,4-Dithiane	p-Dithiane; 1,4-Dithiocyclohexane; 1,4-Dithiin, tetrahydro-; Diethylene disulfide;
15.068	4388		19961-525	5-Этил-2-метилтиазол	5-Ethyl-2-methylthiazole	
15.072		11614	505-29-3	2-Этилтиофен	2-Ethylthiophene	
15.076	4137	11616	18794-779	2-Гексилтиофен	2-Hexylthiophene	
15.078		11617	53498-321	2-Изобутил-4,5-диметилтиазол	2-Isobutyl-4,5-dimethylthiazole	4,5-Dimethyl-2-(2-methylpropyl)thiazole
15.079	3781		10151787-7	2-Изобутилдигидро-4,6-диметил-1,3,5-дитиазин	2-Isobutyldihydro-4,6-dimethyl-1,3,5-dithiazine	2(4)-Isobutyl-4(2),6-dimethyldihydro-4H-1,3,5-dithiazine; 2-(2-Methylpropyl)dihydro-4,6-dimethyl-1,3,5-dithiazine
15.081		11619	292-46-6	Лентионин	Lenthionine	1,2,3,5,6-Pentathiacycloheptane
15.085		11622	13679-839	4-Метил-2-пропионилтиазол	4-Methyl-2-propionylthiazole	
15.089		11626	3581-87-1	2-Метилтиазол	2-Methylthiazole	
15.091		11631	554-14-3	2-Метилтиофен	2-Methylthiophene	

15.092		11632	616-44-4	3-Метилтиофен	3-Methylthiophene	
15.096		11634	4861-58-9	втор-Пентилтиофен	sec-Pentylthiophene	1-Methylbutylthiophene
15.097		11635	13679-759	2-Пропионилтиофен	2-Propionylthiophene	2-Propanoylthiophene;
15.105		11580		1-(2-Тиенил)этан-1-тиол	1-(2-Thienyl)ethane-1-thiol	1-(2-Thienyl)ethylmercaptan;
15.106		11647	110-02-1	Тиофен	Thiophene	
15.107		11874	98-03-3	Тиофен-2-карбальдегид	Thiophene-2-carbaldehyde	2-Formylthiophene;
15.109	4018	11649	638-17-5	2,4,6-Триметилдигидро-1,3,5(4Н)-дитиазин	2,4,6-Trimethyldihydro-1,3,5(4H)-dithiazine	Thialdine;
15.113	4017		74595-941	2,4,6-Триизобутил-5,6-дигидро-4Н-1,3,5-дитиазин	2,4,6-Triisobutyl-5,6-dihydro-4H-1,3,5-dithiazine	
16.001	2054	464	7563-33-9	Аммония изовалерат	Ammonium isovalerate	Isovaleric acid, ammonium salt; Ammonium 3-methylbutanoate; Butanoic acid, 3-methyl-, ammonium salt; Ammonium 3-methylbutanoate
16.002	2053	482	12135-761	Диаммонийсульфид	Diammoniumsulfide	Ammonium monosulfide;
16.006	2787	590	2444-46-4	N-Нонаноил 4-гидрокси-3-метоксибензиламид	N-Nonanoyl 4-hydroxy-3-methoxybenzylamide	Pelargonyl vanillylamide; N-(4-Hydroxy-3-methoxybenzyl)nonanamide; n-Nonanoyl vanillylamide;
16.007	3779	647	7783-06-4	Сероводород	Hydrogen sulfide	
16.009		739	7664-41-7	Аммиак	Ammonia	
16.012	2528	2221	1405-86-3	Глицирризовая кислота	Glycyrrhizic acid	Glycyrrhizin;
16.013	3455	2298	39711-790	N-Этил-2-изопропил-5-метилциклогексан карбоксамид	N-Ethyl-2-isopropyl-5-methylcyclohexane carboxamide	N-Ethyl-p-menthane-3-carboxamide;
16.015	2444	6002(2)/11949	77-83-8	Этил метилфенилглицидат	Ethyl methylphenylglycidate	Ethyl alpha,beta-epoxy-beta-methylphenylpropionate; Strawberry aldehyde; Aldehyde C-16; Ethyl 2,3-epoxy-3-methyl-3-phenylbutanoate
16.016	2224	11741	58-08-2	Кофеин	Caffeine	1,3,7-trimethyl-2,6-dioxopurine
16.017	2446	11869	109-95-5	Этил нитрит	Ethyl nitrite	Nitrous ether;
16.018	2454	11844	121-39-1	Этил 3-фенил-2,3-эпоксипропионат	Ethyl 3-phenyl-2,3-epoxypropionate	Ethyl alpha,beta-epoxy-alpha-phenylpropionate; Ethyl 3-phenylglycidate;
16.027	3322	10493	67-03-8	Тиамин гидрохлорид	Thiamine hydrochloride	Vitamin B1; 3-((4-amino-2-methyl-5-pyrimidinyl)methyl)-5-(2-hydroxyethyl)-4-methylthiazolium chloride
16.030	3578	11540	67715-804	2-Метил-4-пропил-1,3-оксатиан	2-Methyl-4-propyl-1,3-oxathiane	1,3-Oxathiane, 2-methyl-4-propyl;-;
16.032	3591		83-67-0	Теобромин	Theobromine	3,7-Dihydro-3,7-dimethyl-1h-purine-2,6-

						dione; 3,7-Dimethylxanthine; 1H-purine-2,6-dione, 3,7-dihydro-3,7-dimethyl; 3,7-Dihydro-3,7-dimethyl-1H-purine-2,6-dione
16.039	3752			Калия 2-(1'-этокси)этоксипропан	Potassium 2-(1'-ethoxy)ethoxypropanoat	
16.040	3757	11707	74367-978	Этил 2,3-эпокси-3-метил-3-п-толилпропионат	Ethyl- 2,3-epoxy-3-methyl-3-ptolylpropionate	Ethyl methyl-p-tolylglycidate; Ethyl methyl-p-methylphenylglycidate; Ethyl 2,3-epoxy-3-(4-methylphenyl)butanoate
16.041	3773		13794-155	Натрия 2-(4-метоксифеноксипропионат	Sodium 2-(4-methoxyphenoxy)propionate	
16.042	4084	10501	18383-498	Карвон-5,6-оксид	Carvone-5,6-oxide	5,6-Epoxy-p-menth-8-en-2-one
16.043	4085	10500	1139-30-6	Бета-Кариофилленэпоксид	beta-Caryophyllene epoxide	beta-Caryophyllene oxide; 4,5-Epoxy-4,12,12-trimethyl-8-methylene-bicyclo[8.2.0]dodecane
16.044	4199	10508	35178-553	Пиперитенон оксид	Piperitenone oxide	1,2-Epoxy-p-menth-4(8)-en-3-one
16.049	4252		541-35-5	Бутирамид	Butyramide	Butyramide; Butanimidic acid; n-Butylamide
16.051	4109		38284-116	Эпоксиоксафорон	Эпохуохопорон	7- Oxabicyclo[ 4.1.0] heptane- 2,5- dione, 1,3,3-trimethyl-; 3,5,5- Trimethyl- 2,3-epoxycyclohexane- 1,4- dione
16.053	3804	10459	51115-674	2-Изопропил-N,2,3-триметилбутанамид	2-Isopropyl-N,2,3-trimethylbutanamide	2-Isopropyl-N,2,3-trimethylbutyramide; N,2,3-trimethyl-2-isopropylbutanamide;
16.055	3794		564-20-5	Склареолид	Sclareolide	Norambrienolide; Decahydro-tetramethylnaphtho-furanone; 3a,6,6,9a-Tetramethyldecahydronaphtho(2,1b) furan-1-one
16.056	3813		107-35-7	Таурин	Taurine	2-Aminoethanesulfonic acid
16.058	2769	10286	10236-472	Нарингин	Naringin	
16.059	2053	482	12124-991	Аммония сульфид	Ammonium hydrogen sulphide	
16.060	2528	2221	53956-040	Глицирризовая кислота, аммонийная соль	Glycyrrhizic acid, ammoniated	
16.061	3811		20702-776	Неогесперидина дигидрохалькон	Neohesperidine dihydrochalcone	
16.071	4037		18859062-7	4,5-Эпоксидек-2(транс)-еналь	4,5-Epoxydec-2(trans)-enal	
16.073	3900		126-96-5	Натрия диацетат	Sodium diacetate	Sodium ethanoate;
16.075	3801		12239796-0	Этилванилина бета-D-глюкопиранозид	Ethyl vanillin beta-D-glucopyranoside	
16.080	3042	746	72401-537	Дубильная кислота	Tannic acid	D-glucose pentakis[3,4-dihydroxy-5-[(trihydroxy-3,4,5-benzoyl)oxy]benzoate]
16.081	3038	11819	126-14-7	Сахарозы октаацетат	Sucrose octaacetate	Octaacetylsucrose; Octaacetyl sucrose;

17.001	3252		107-95-9	бета-Аланин	beta-Alanine	3-Aminopropanoic acid
17.002	3818	11729	56-41-7	l-Аланин	l-Alanine	2-Aminopropanoic acid
17.003	3819	11890	74-79-3	l-Аргинин	l-Arginine	(S)-2-Amino-5-guanidinovaleric acid; Arginine; 2-Amino-5-guanidinovaleric acid;
17.005	3656	10078	56-84-8	Аспарагиновая кислота	Aspartic acid	2-Aminobutanedioic acid
17.006		11747	56-89-3	Цистеин	Cystine	
17.007	3684		56-85-9	Глутамин	Glutamine	
17.008	3694		71-00-1	l-Гистидин	l-Histidine	
17.010	3295	10127	443-79-8	d,l-Изолейцин	d,l-Isoleucine	2-Amino-3-methylpentanoic acid
17.012	3297	10482	61-90-5	l-Лейцин	l-Leucine	
17.013	3847	11947	70-54-2	DL-Лизин	DL-Lysine	
17.014	3301	569	59-51-8	d,l-Метионин	d,l-Methionine	D,L-Methionine; alpha-Amino-gamma-methyl thio-n-butyric acid; 2-Amino-4-(methyl thio)-butanoic acid; 2-Amino-4-(methylthio)butanoic acid
17.015	3445	761	1115-84-0	S-Метилметионинсульфоний хлорид	S-Methylmethioninesulphonium chloride	Vitamin U; DL-(3-Amino-3-carboxypropyl)dimethylsulphonium chloride;
17.017	3726	10488	150-30-1	DL-Фенилаланин	DL-Phenylalanine	
17.018	3585	10488	63-91-2	l-Фенилаланин	l-Phenylalanine	
17.019	3319	10490	147-85-3	l-Пролин	l-Proline	Pyrrolidine-2-carboxylic acid
17.022	3736		60-18-4	l-Тирозин	l-Thyrosine	
17.023	3444		516-06-3	DL-Валин	DL-Valine	2-Amino-3-methylbutanoic acid
17.024	3818	11729	302-72-7	DL-Аланин	DL-Alanine	L-alpha-Alanine; (S)-2-Aminopropanoic acid; L-alpha-Aminopropionic acid; DL-Alanine; DL-2-Aminopropanoic acid;
17.026	3847	11947	56-87-1	l-Лизин	l-Lysine	Lysine; (S)-2,6-Diaminohexanoic acid; alpha, epsilon-Diaminocaproic acid ;
17.027	3301		63-68-3	l-Метионин	l-Methionine	
17.028	3444		72-18-4	l-Валин	l-Valine	
17.032		11746	52-89-1	l-Цистеингидрохлорид	l-Cysteinehydrochloride	
17.033	3263	10464	52-90-4	l-Цистеин	l-Cysteine	
17.034	3287	1177	56-40-6	Глицин	Glycine	

Note:

<sup>1</sup> – Ru No. – number of the Federal Executive Body carrying out control and supervision functions in the sphere of ensuring sanitary and epidemiological welfare of the population – Russian Numeration of Flavoring Substances allowed for application upon production of food flavorings which is based on FLAVIS European Database; the first two figures after the Latin letters "Ru" before the full stop mean chemical classes of compounds, the following three figures

after the full stop mean the number of that substance in the specified class of compounds; classes of compounds: 01 – hydrocarbons, 02 – alcohols, 03 – simple ethers, 04 – phenols and simple phenates, 05 – aldehydes, 06 – aldehyde acetals, 07 – ketones, 08 – organic acids, 09 – compound ethers of organic acids, 10 – lactones, 11 – amines, 12 – sulphur-containing compounds, 13 – oxygen-containing heterocyclic compounds, 14- Nitrogen-containing heterocyclic compounds, 15-sulphur-containing heterocyclic compounds, 16 – compounds of mixed classes, 17 – amino acids;

<sup>2</sup> – FEMA No. – number under FEMA-GRAS list – the flavoring substances “generally recognized as safe substances” by the Flavor and Extract Manufacturers Association (Fragrance And Perfume Raw Materials – 2010, Allured Business Media, IL, USA);

<sup>3</sup> – EU No. – number under the classification adopted in the European Union in accordance with the register of flavors for food products adopted by the Regulation of the European Union and Parliament No. 2232/96 dated October 28, 1996 (Regulation (EC) of the European Parliament and of the Council of October 28, 1996) and EU Commission Decision 1999/217/EC dated February 23, 1999 (Commission Decision 1999/217/EC of February 23, 1999) with additions.

**Annex 20**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Allowable Levels of Biologically Active Substances in Food Products Based on the Use of  
Plant Raw Materials and Flavorings from Plant Raw Materials<sup>1</sup>**

Biologically active substances	Food products	Maximum level, mg/kg (l)
beta-Asarone	Alcoholic beverages	1.0
Quassin <sup>3</sup>	Non-alcoholic beverages	0.5
	Bakery products	1
	Alcoholic beverages	1.5
Coumarin	Bakery products with cinnamon (specified on the label)	50
	Bakery products	15
	Dry breakfast cereals from grains, including muesli	20
	Desserts	5
Menthofuran	Confectionery containing mint (peppermint)	500
	Mint-containing (peppermint) and breath-freshening micro confectionery (with the unit weight not over 1 g)	3,000
	Chewing gum	1,000
	Mint-containing (peppermint) alcoholic beverages	200
methyl eugenol (4-allyl-1,2dimethoxybenzene) <sup>2</sup>	Milk-containing products	20
	Meat intermediate products and meat products, including poultry and game meat	15
	Fish intermediate products and fish products	10
	Soups and sauces	60
	Ready-prepared snacks	20
	Non-alcoholic beverages	1
Pulegone	Mint-containing (peppermint) confectionery	250
	Mint-containing (peppermint) and breath-freshening micro confectionery (with the unit weight not over 1 g)	2,000
	Chewing gum	350
	Mint-containing (peppermint) non-alcoholic beverages	20
	Mint-containing (peppermint) alcoholic beverages	100
Safrole (1-allyl-3,4methylenedioxybenzene) <sup>2</sup>	Meat intermediate products and meat products, including poultry and game meat	15
	Fish intermediate products and fish products	15
	Soups and sauces	25



	Non-alcoholic beverages	1
Hydrocyanic acid	Nougat, marzipan, replacers thereof (analogues) and similar products	50
	Preserved fruit with pits	5
	Alcoholic beverages	35
Thujone (alpha and beta)	Alcoholic beverages	10
	Alcoholic beverages produced using wormwood	35
	Non-alcoholic beverages produced using wormwood	0.5
Teucrin A <sup>3</sup>	Alcoholic beverages, including liqueurs, with bitter flavor	5
	Alcoholic beverages	2
Estragole (1-allyl-4methoxybenzene) <sup>2</sup>	Milk-containing products	50
	Technologically processed fruit, vegetables (including mushrooms, roots, root crops, grain beans and beans), nuts and seed	50
	Fish products	50
	Non-alcoholic beverages	10

Note:

<sup>1</sup> – vegetable raw materials – fresh, dried, or frozen herbs and spices.

<sup>2</sup> – only for food products produced using flavorings from vegetable raw materials.

<sup>3</sup> – the scope of application is limited only by the specified food products.

**Annex 21**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Clarifying and Filtering Materials, Flocculants and Sorbents**

<b>Technological aid</b>	<b>Food products, technology</b>	<b>Maximum residual quantity</b>
Modified acrylamide resins	Production of sugar; Water boiling	in accordance with TD
Acrylate-acrylain resin	Production of sugar	10 mg/kg
Aluminosilica (aluminum silicate)	Juice products	1.0 g/l
Aluminophosphates (soluble complexes)	Non-alcoholic beverages	in accordance with TD
Edible albumin	In accordance with TD	in accordance with TD
Anthranilic acid	Cottonseed oil (for gossypol removal)	in accordance with TD
Magnesium acetate	Treacle and sugar solutions	in accordance with TD
Bentonite	Starch-treacle production, production of sugar, production of juice products, butter-making, wine-making, alcoholic beverages, fat-and-oil industry	in accordance with TD
Vinyl acetate and vinylpyrrolidone copolymer	In accordance with TD	in accordance with TD
n-vinylpyrrolidone with triethylene glycol dimethacrylic ester copolymer	Non-alcoholic beverages, alcoholic beverages	in accordance with TD residues in the end products shall not be allowed
Sorbent clays (bleached, natural, active earths or rocks, activated tripoli)	Starch-treacle production, production of sugar, butter-making, wine-making, fat-and-oil and production of juice products	in accordance with TD
Diatomite	Processing of wine materials, sugar and treacle solutions, production of juice products, vegetable oils and other products	in accordance with TD
Divinylbenzene-ethylvinylbenzene copolymer	Processing of water food solutions (except for carbonated beverages)	in accordance with TD
Dimethylamine-epichlorohydrin copolymers	Production of sugar	5.0 mg/kg
Edible gelatin	Wine-making, alcoholic beverages, production of juice products	in accordance with TD
Filtering earths (calcium analogues of sodium montmorillonite)	In accordance with TD	in accordance with TD
Ion-exchange resins	In accordance with TD	in accordance with TD
Kaolin	Starch-treacle production, production of sugar, juice products, butter-making, wine-making, fat-and-oil industry; processing of wine materials, sugar and treacle solutions, fruit juices, vegetable oils and other products	in accordance with TD
Cardboard filter	In accordance with TD	in accordance with TD

Potassium and sodium caseinates	Production of juice products	in accordance with TD
Silica, including colloidal and liquid silica	Production of juice products	in accordance with TD
Kieselguhr	Beer filtration Alcoholic beverages Fat-and-oil industry, production of sugar, juice products	in accordance with TD
Clinoptilolite (zeolite)	Wort, juice and wine materials	in accordance with TD
Flint	For water processing and grading upon vodka production	in accordance with TD
Sodium monohydroxyphosphate	In accordance with TD	in accordance with TD
Nitrile trimethyl phosphonic acid trisodium salt	Juices (iron removal)	in accordance with TD residues in juices not over 10 mg/kg
Calcium oxide, lime	Production of sugar	in accordance with TD
Pearlite	Wine materials Alcoholic beverages Fat-and-oil industry, production of sugar, juice products	in accordance with TD
Productive animals dried blood plasma	In accordance with TD	in accordance with TD
Polyacrylimide	Production of sugar Alcoholic beverages Edible salt	in accordance with TD
Sodium polyacrylate	Production of sugar	in accordance with TD
Polyacrylic acid	Production of sugar	in accordance with TD
Polyvinylcaprolactam	Beer wort Wine materials	in accordance with TD
Polyvinyl triazole	Grape juice, wort	500 mg/kg
Poly diallyl dimethyl ammonium chloride	Production of sugar Vegetable oils	0.01 mg/kg (l)
Malic acid and sodium malate polymers	Production of sugar	5 mg/kg
Polyoxyethylene	Wine materials	in accordance with TD
Polystyrene	Production of sugar Juices Wine, beer	In accordance with TD
Rice hulls	Production of juice products	in accordance with TD
Fish glue	Wine, beer, juice products	in accordance with TD
Styrene divinyl benzene chloromethylated and amidated polymer resin	Production of sugar	1 mg/kg
Tannin	Wines Alcoholic beverages	in accordance with TD
Cloth filters, cotton and synthetic	In accordance with TD	in accordance with TD
Activated vegetable carbon, including impregnated with silver	Processing of wine materials, sugar and treacle solutions, juice products, vegetable oils and other products; Vodka	in accordance with TD
Phytin	Wine materials (iron removal)	in accordance with TD
ortho-Sodium phosphate 3-substituted	In accordance with TD	in accordance with TD
Zirconium phosphate	Wine materials	0.1 mg/l
Phosphoric acid	In accordance with TD	in accordance with TD
Chitin, chitosan	In accordance with TD	in accordance with TD
Enomelanin	Juice and wine materials	in accordance with TD

**Annex 22**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Catalysts<sup>1</sup>**

<b>Technological aid</b>	<b>Food products, technology</b>	<b>Maximum residual quantity</b>
Aluminium	In accordance with TD	in accordance with TD
Potassium metal	Interesterification of edible oils	1 mg/kg
Potassium methylate (methoxide)	Interesterification of edible oils	1 mg/kg
Potassium ethylate	Interesterification of edible oils	in accordance with TD
Manganese	Hydrogenation of edible oils	0.4 mg/kg
Copper	Hydrogenation of edible oils	0.1 mg/kg
Cupric chromate	In accordance with TD	in accordance with TD
Cupric chromite	In accordance with TD	in accordance with TD
Molybdenum	Hydrogenation of edible oils	0.1 mg/kg
Sodium metal	Interesterification of edible oils	1 mg/kg
Sodium amide	Interesterification of edible oils	1 mg/kg
Sodium methylate	Interesterification of edible oils	1 mg/kg
Sodium ethylate	Interesterification of edible oils	1 mg/kg
Nickel	Hydrogenation of edible oils and hardening of fats;	0.7 mg/kg
	Production of sugar and ethyl alcohol	1 mg/kg
Oxides of various metals	Hydrogenation of edible oils	<0.1 mg/kg
Palladium	Hydrogenation of edible oils	1 mg/kg
Platinum	Hydrogenation of edible oils	0.1 mg/kg
Sylver	Hydrogenation of edible oils	0.1 mg/kg
Trifluoromethanesulfonic acid	Cocoa butter substitutes	0.01 mg/kg
Chrome	Hydrogenation of edible oils	0.1 mg/kg
Zirconium	In accordance with TD	in accordance with TD

Note:

<sup>1</sup> – Alloys of two and over mentioned metals may be used as catalytic agents, as well.

**Annex 23**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Extraction and Technological Solvents**

Technological aid	Food products, technology	Maximum residual quantity
Acetone	Flavorings	30 mg/kg
	Coloring agents	2 mg/kg
	Edible oils	0.1 mg/kg
Amyl acetate	Flavorings Coloring agents	in accordance with TD
Benzyl alcohol	Flavorings Coloring agents Fatty acids	in accordance with TD
Butane	Flavorings	1 mg/kg
	Edible oils	0.1 mg/kg
1,3-Butanediol	Flavorings	in accordance with TD
n-Butanol-1	Flavorings, fatty acids, coloring agents	1 g/kg
n-Butanol-2	Flavorings	1 mg/kg
Butyl acetate	In accordance with TD	in accordance with TD
tertiary Butyl alcohol	In accordance with TD	in accordance with TD
Hexane	Flavorings, edible oils	1 mg/kg
Heptane	Flavorings, edible oils	1 mg/kg
Carbon dioxide (liquid carbonic acid)	Flavorings Extracts	in accordance with TD
Dibutyl ether	Flavorings	2 mg/kg
Dichlorodifluoromethane	Flavorings, coloring agents	1 mg/kg
Dichloromethane (methylene chloride)	Decaffeination of coffee and tea	5 mg/kg
Dichlorotetrafluoroethane	Flavorings	1 mg/kg
Dichlorofluoromethane	Flavorings	1 mg/kg
Dichloroethane	Decaffeination of coffee	5 mg/kg
Diethyl ether	Flavorings, coloring agents	2 mg/kg
Diethyl propyl ketone	In accordance with TD	in accordance with TD
Diethyl citrate	Flavorings, coloring agents	in accordance with TD
Nitrous oxide	In accordance with TD	in accordance with TD
Isobutane	Flavorings	1 mg/kg
Isopropyl myristate	Flavorings	in accordance with TD

	Coloring agents	
Isopropyl alcohol (propane-2-ol)	Flavorings Coloring agents	in accordance with TD
Methyl acetate	Decaffeination of coffee	20 mg/kg
	Flavorings	1 mg/kg
	Sugar refinement	1 mg/kg
Methyl propanol -1	Flavorings	1 mg/kg
n-Octyl alcohol	Citric acid	in accordance with TD
Pentane	Flavorings, edible oils	1 mg/kg
Petroleum ether	Flavorings, edible oils	1 mg/kg
Propane	Flavorings	1 mg/kg
	Edible oils	0.1 mg/kg
Propylene glycol (propane-1,2-diol)	Fatty acids Flavorings Coloring agents	in accordance with TD
Propyl alcohol (n-propanol-1)	Fatty acids Flavorings Coloring agents	in accordance with TD
Toluene	Flavorings	1 mg/kg
Glycerol tributryate	Flavorings Coloring agents	in accordance with TD
Tridodecylamine	Citric acid	in accordance with TD
Glycerol tripropionate	Flavorings Coloring agents	in accordance with TD
Trichlorofluoromethane	Flavorings	1 mg/kg
1,1,2-Trichloroethylene	Flavorings, edible oils	2 mg/kg
Isoparaffin petroleum hydrocarbons	Citric acid	in accordance with TD
Cyclohexan	Flavorings, edible oils	1 mg/kg
Ethanol	In accordance with TD	in accordance with TD
Ethyl acetate	In accordance with TD	in accordance with TD
Ethylmethylketon (Butanone)	Fatty acids, flavorings, coloring agents	2 mg/kg
	Decaffeination of coffee and tea	2 mg/kg

**Annex 24**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Yeast Nutrients (Nutritional Substances)<sup>1</sup>**

Technological aid	Application technology
Biotin	in accordance with TD
Vitamins of B complex	in accordance with TD
Yeast autolysates	in accordance with TD
Inositol	in accordance with TD
Potassium carbonates	in accordance with TD
Calcium carbonate	in accordance with TD
Niacin	in accordance with TD
Pantothenic acid	in accordance with TD
Ammonium sulphate	in accordance with TD
Iron sulfate	in accordance with TD
Iron ammonium sulfate	in accordance with TD
Calcium sulphate	in accordance with TD
Magnesium sulphate	in accordance with TD
Cupric sulfate	in accordance with TD
Zinc sulphate	in accordance with TD
Ammonium phosphates	in accordance with TD
Calcium phosphate	in accordance with TD
Ammonium chloride	in accordance with TD
Potassium chloride	in accordance with TD

Note:

<sup>1</sup> – The specified aids may be used in combination.

**Annex 25**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Hygienic Standards for Use of Aids with Other Technological Functions**

<b>Technological aid</b>	<b>Technological function</b>	<b>Maximum residual quantity; food products and application technology</b>
Potassium alkylbenzolsulfonate (sulphanol, sulphonol)	Cleansing agents	In accordance with TD
N-alcyl (C12-C16)dimethyl benzyl chloride	Antimicrobial substances	in accordance with TD
Potassium bromide	Cleansing agents	in accordance with TD fruit and vegetables
Gibberellin, gibberellinic acid	Malting stimulator	in accordance with TD
Hypochlorites	Antimicrobial substances	in accordance with TD edible oils
	Cleansing agents	in accordance with TD (except for chicken dressing)
Glycolic esters of saturate alcohols	Defoaming agents	in accordance with TD production of juices
Dialkanolamines	Cleansing agents	1 mkg/kg sugar beet (not allowed in sugar)
Dimethyl dicarbonate	Antimicrobial substances	production of wines – residues shall not be allowed
Dimethyldithiocarbamic acid sodium salt	Antimicrobial substances	in accordance with TD
Diocetyl sodium sulphosuccinate	Detergents	10 mg/kg fruit beverages
Dichlorodifluoromethane	Contact freezing and cooling agents	100 mg/kg frozen food products (except for dressed chicken)
Dichlorofluoromethane	Contact freezing and cooling agents	100 mg/kg frozen food products (except for dressed chicken)
Diethyldicarbonate	Antimicrobial substances	production of wines – residues are not allowed
Dodecylbenzenesulphonic acid sodium salt	Cleansing agents	2 mg/kg fruit and vegetables, meat and poultry
Oak and beech wood chips (staff wood, chips, etc.)	Blending upon production of brandy (wine alcohols), flavored wines and special beer	In accordance with TD
Carbamates	Cleansing agents	in accordance with TD sugar beet
Keto alcohols C9-C30	Defoaming agents	in accordance with TD
Xylain sylphonic acid sodium salt	Detergents	1 mg/kg edible fats and oils
Lactoperoxidase system (lactoperoxidase, glucose oxidase,	Antimicrobial substances	in accordance with TD



thiocyanates)		
Sodium lauryl sulfate	Detergents	1 mg/kg edible fats and oils
Fatty acid methyl ethers	Defoaming agents	in accordance with TD
Mono- and dimethyl naphthalene sulfonic acid sodium salt	Cleansing agents	0.2 mg/kg fruit, vegetables
Monoethanolamine	Cleansing agents	1 mg/kg fruit, vegetables, sugar beet (not allowed in sugar)
Peracetic acid	Antimicrobial substances	processing of dressed chicken and eggs – residues are not allowed
Hydrogen peroxide	Antimicrobial substances Cleansing agents Bleaching agent	production of sugar, fruit and vegetable juices – residues are not allowed; intermediate products – semi-finished products from carrots, white vegetables and onions for food preservation industry, processing with solution of 2.4 g/kg – residues are not allowed; processing of eggs – residues are not allowed; slaughterhouse blood (decoloration together with catalase) – residues shall not be allowed
Polyacrylimide	Cleansing agents	1mg/kg fruit, vegetables, sugar beet
Polyacrylic acid, sodium salt	Defoaming agents	in accordance with TD
Polyalkyleneglycol esters of fatty acids	Defoaming agents	in accordance with TD
Polyoxypropylene (polyoxyethylene) esters of glycerol (laprol)	Defoaming agents	in accordance with TD
Polyoxypropylene esters C8-C30 of fatty acids	Defoaming agents	in accordance with TD
Polyoxypropylene esters C9-C30 of keto alcohols	Defoaming agents	in accordance with TD
Polyoxyethylene esters C8-C30 of fatty acids	Defoaming agents	in accordance with TD
Polyoxyethylene esters C8-C30 of keto alcohols	Defoaming agents	in accordance with TD
Polysorbates (60, 65, 80)	Defoaming agents	in accordance with TD
Polyethylene glycol	Defoaming agents	in accordance with TD
Polyethylene glycol(400, 600)dioleate	Defoaming agents	in accordance with TD
Propylene oxide	Antimicrobial substances	in accordance with TD
Sulphuric acid	Acidity regulator in alcohol production	In accordance with TD
Sodium silicate	Cleansing agents	In accordance with TD
Saturated alcohols C8-C30	Defoaming agents	in accordance with TD
Sodium tripolyphosphate	Cleansing agents	In accordance with TD
Triethanolamine	Cleansing agents	0.05 mkg/kg sugar beet (not allowed in sugar)

Undecylbenzenesulphonic acid, linear	Cleansing agents	1 mkg/kg sugar beet (not allowed in sugar)
Formaldehyde	Antimicrobial substances Defoaming agents	0.05 mg/kg sugar beet processing, yeast production
Freon	Contact freezing and cooling agents	in accordance with TD
Sodium chlorite	Antimicrobial substances	in accordance with TD (except for chicken dressing)
Cetylpyridinium chloride	Antimicrobial substances	4 mg/kg (dressed chicken)
Cyandithioamidocarboxylic acid disodium salt	Antimicrobial substances	in accordance with TD
Quaternary ammonium compounds	Antimicrobial substances	in accordance with TD edible oils
	Detergents	in accordance with TD
2-ethylhexyl sulphuric acid sodium salt	Cleansing agents	20 mg/kg fruit, vegetables
Ethylenebisdithiocarbamic acid disodium salt	Antimicrobial substances	in accordance with TD
Ethylene glycol monobutylate	Cleansing agents	0.03 mkg/kg sugar beet (not allowed in sugar)
Ethylenediamine	Antimicrobial substances	in accordance with TD
Ethylenediaminetetraacetic acid tetrasodium salt	Cleansing agents	0.003 mkg/kg sugar beet (not allowed in sugar)
Ethylene dichloride	Cleansing agents	0,01 mkg/kg sugar beet (not allowed in sugar)
Ethoxyquin (santoquin)	Antimicrobial substances	apples (surface treatment – 0.05-0.3% water solution); residues after storage – 0.1 mg/kg

**Annex 26**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Enzymatic Preparations Allowed for Use in Production of Food Products**

<b>Enzymatic preparations</b>	<b>Production source, producer</b>
<i>Enzymatic preparations of animal origin</i>	
alpha-Amylase	pancreas of livestock and pigs
Catalase	liver of livestock and horses
Lysozyme	egg white of chicken eggs
Lipase	ventriculi, proventriculi, abomasums and salivary glands of livestock
Pepsin	ventricul of pigs
Poultry pepsin	ventriculus of chicken
Enzyme rennet	ventriculi, abomasums of livestock, calves, goats, goatlings, sheep and yeanelings
Tripsin	pancreas of livestock, pigs
Phospholipase	pancreas of calves, yeanelings and goatlings
Chemosin	pancreas of calves, yeanelings and goatlings
<i>Enzymatic preparations of vegetable origin</i>	
Bromelain	pineapple (Ananas spp.)
Liposidase, lipoxygenase	soybeans
Maltcarbohydrases	barley, barley malt
Papain	papaya (Carica papaya)
Chymopapain	papaya (Carica papaya)
Ficin	figs (Ficus spp.)
<i>Enzymatic preparations of microbial origin</i>	
Alcohol dehydrogenase	Saccharomyces cerevisiae
alpha-Amylase	Aspergillus niger Aspergillus oryzae Bacillus amyliquefaciens Bacillus licheniformis Bacillus megaterium Bacillus stearothermophilus Bacillus subtilis Rhizopus arrhizus Rhizopus oryzae
beta-Amylase	Bacillus cereus Bacillus megaterium Bacillus subtilis
Arabinofuranosydase	Aspergillus niger

alpha-Galactosidase	Aspergillus niger Mortierella vinacea Saccharomyces cerevisiae
beta-Galactosidase	Aspergillus niger Curvalaria inaequalis Penicillium canescens Saccharomyces fragilis Saccharomyces sp.
Hemicellulase	Aspergillus aculeatus Aspergillus niger Aspergillus oryzae Bacillus subtilis Rhizopus arrhizus Sporotrichum dimorphosporum Trichoderma longibrachiatum (reesei)
beta-Glucanase	Aspergillus awamori Aspergillus batate Aspergillus niger Bacillus subtilis Humicola insolens Rhizopus pigmaues Trichoderma harzianum
endo-beta-Glucanase	Aspergillus niger Aspergillus oryzae Bacillus circulans Bacillus subtilis Disporotrichum dimorphosporum Penicillium emersonii Rhizopus arrhizus Rhizopus oryzae Trichoderma longibrachiatum (reesei)
glucoamylase or amyloglucosidase	Aspergillus amaurii Aspergillus awamori Aspergillus niger Aspergillus oryzae Rhizopus arrhizus Rhizopus niveus Rhizopus oryzae Trichoderma longibrachiatum (reesei)
beta-Glucosidase	Endmycopsis sp. Penicillium vitale Rhizopus pigmaues Trichoderma harzianum
exo-alpha-Glucosidase	Aspergillus niger Penicillium vitale
Glucose isomerase	Actinoplanes missouriensis Arthrobacter sp. Bacillus coagulans Streptomyces albus Streptomyces olivaceus Streptomyces olivochromogenes Streptomyces rubiginosus

	Streptomyces sp. Streptomyces violaceoniger
Glucose oxidase	Aspergillus niger
alpha-decarboxylase	Bacillus brevis
Dextranase	Aspergillus sp. Bacillus subtilis Klebsiella aerogenes Penicillium funiculosum Penicillium lilacinus
Isomerase	Bacillus cereus
Invertase	Aspergillus niger Bacillus subtilis Kluyveromyces fragilis Saccharomyces carlsbergensis Saccharomyces cerevisiae Saccharomyces sp.
Inulinase	Aspergillus niger Kluyveromyces fragilis Sporotrichum dimorphosporum Streptomyces sp.
Catalase	Aspergillus niger Micrococcus luteus (lysodeicticus) Penicillium vitale
Xylanase	Aspergillus niger Aspergillus aculeatus Humicola insolens Sporotrichum dimorphosporum Streptomyces sp. Trichoderma longibrachiatum (reesei) Trichoderma viride
Lactase, beta-Galactosidase	Aspergillus niger Aspergillus oryzae Kluyveromyces fragilis Kluyveromyces lactis Saccharomyces sp.
Lipase	Aspergillus flavus Aspergillus niger Aspergillus oryzae Brevibacterium linens Candida lipolytica Candida rugosa Mucor javanicus Mucor miehei Mucor pusillus Rhizopus arrhizus Rhizopus nigricans (stolonifer) Rhizopus niveus
Malate decarboxylase	Leuconostoc oenos
Maltase, alpha-glucosidase	Aspergillus niger Aspergillus oryzae

	Rhizopus oryzae Trichoderma longibrachiatum (reesei)
Melibiose	Mortierella vinacea Saccharomyces cerevisiae
Nitrate reductase	Micrococcus violagabriella
Pectinase	Aspergillus awamori Aspergillus foetidus Aspergillus niger Aspergillus oryzae Bacillus macerans Botrytis cinerea Penicillium simplicissimum Rhizopus oryzae Trichoderma longibrachiatum (reesei)
Pectin lyase	Aspergillus niger
Pectinesterase	Aspergillus niger
Pentosanase	Humicola insolens
Polygalacturonase	Aspergillus aculeatus Aspergillus niger Penicillium canescens
Protease (including milk-clotting enzymes)	Aspergillus awamori Aspergillus melleus (quercinus) Aspergillus niger Aspergillus oryzae Aspergillus terricola Bacillus amyliquefaciens Bacillus cereus Bacillus licheniformis Bacillus mesentericus Bacillus subtilis Brevibacterium linens Endothia parasitica Lactobacillus casei Micrococcus caseolyticus Mucor miehei Mucor pusillus Streptococcus cremoris Streptococcus lactis Streptomyces fradiae
Pullulanase	Bacillus acidopullulyticus Bacillus subtilis Klebsiella aerogenes
Serine proteinase	Bacillus licheniformis Streptomyces fradiae
Tannase	Aspergillus niger Aspergillus oryzae
Chemosin	Aspergillus awamori Aspergillus niger Escherichia coli Kluyveromyces lactis

Cellobiase	Aspergillus niger Trichoderma longibrachiatum (reesei)
Cellulase	Aspergillus niger Aspergillus oryzae Geotrichum candidum Penicillium funiculosum Rhizopus arrhizus Rhizopus oryzae Sporotrichum dimorphosporum Thielavia terrestris Trichoderma longibrachiatum (reesei) Trichoderma roseum Trichoderma viride
Esterase	Muccor miehei

**Annex 27**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Aids (Materials and Solid Carrying Agents) for Immobilization of Enzymatic Preparations  
Allowed for Use in Production of Food Products**

Materials and solid carrying agents
Sodium alginate
Glutaric aldehyde
Diatomite (diatomaceous earth)
Diethylaminoethyl cellulose
Gelatin
Ion-exchange resins allowed for application in food industry
Carrageenan
Ceramics
Kieselguhr
Polyethyleneimine
Polysaccharides, including dextrans
Aluminum oxide
Silica gel (silicon dioxide)
Glass
Carbon



**Annex 28**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

**Safety Requirements and Criteria for the Purity of Food Additives**

Index	Name of additives	Technological functions	Basic substance content	Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	
			%, minimum					
E100	CURCUMIN	coloring agent	90% total coloring substances	3	10	1	1	
E101	RIBOFLAVINS:	coloring agent						
	(i) Riboflavin		98% on anhydrous basis	3	10	1	1	
	(ii) Riboflavin 5-phosphate sodium		95% total coloring substances calculated as C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> NaO <sub>9</sub> P·2H <sub>2</sub> O	3	10	1	1	
E102	TARTRAZINE	coloring agent	85% total coloring substances calculated as sodium salt E1 cm 1% at a temperature of about 530 and 426 nm in water solution	3	10	1	1	
E104	QUINOLINE YELLOW	coloring agent	70% total coloring substances calculated as sodium salt	3	10	1	1	
E110	SUNSET YELLOW FCF	coloring agent	85% total coloring substances calculated as sodium E1 cm 1% at a temperature of about 555 and 485 nm in water solution under pH 7	3	2	1	1	
E120	CARMINES		2.0% of carminic acid in extracts containing carminic acids, 50% of carminic acid in chelating substance.	3	10	1	1	
E122	AZORUBINE, CARMOISIN	coloring agent	85% total coloring substances, calculated as sodium salt E1 cm 1% at a temperature of about 510 and 516 nm in water solution	3	10	1	1	
E124	PONCEAU 4R	coloring agent	80% total coloring substances, calculated as sodium salt E1 cm 1% at a temperature of about 430 and 505 nm in water solution	3	10	1	1	
E129	ALLURA RED AC	coloring agent	85% total coloring substances, calculated as sodium salt E1 cm 1% at a temperature of about 540 and 504 nm in water solution under pH 7	3	10	1	1	

E131	PATENT BLUE V	coloring agent	85% total coloring substances, calculated as sodium salt E1 cm 1% 2,000 at a temperature of about 638 nm in water solution under pH 5	3	10	1	1	
E132	INDIGOTINE	coloring agent	85% total coloring substances, calculated as sodium salt; disodium 3,3'-dioxo-2,2'-bi-indolylidene-5,7'-disulphonate: not over 18% E1 cm 1% 480 about 610 nm in water solution	3	10	1	1	
E133	BRILLIANT BLUE FCF	coloring agent	85% total coloring substances, calculated as sodium salt E1 cm 1% 1,630 at a temperature of about 630 nm in water solution	3	10	1	1	
E140	CHLOROPHYLL	coloring agent	140i – the total aggregate content of chlorophylls and magnesium complexes thereof constitutes over 10% E1 cm 1% 700 at a temperature of about 409 nm in chloroform 140ii – 95% of the pollees dry the agent at a temperature of about 100 °C within an hour. E1 cm 1% 700 at a temperature of about 405 nm in water solution under pH 9 E1 cm 1% 140 at a temperature of about 653 nm in water solution under pH 9	3	10	1	1	
E141	COPPER CHLOROPHYLLS	coloring agent						
	(i) Chlorophyll copper complex,		Total copper chlorophyllins content over 10%. E1 cm 1% at a temperature of about 540 and 422 nm in chloroform E1 cm 1% 300 at a temperature of about 652 nm in chloroform	3	10	1	1	
	(ii) Chlorophyllin copper complex, sodium and potassium salts.		Total copper chlorophyllins content, over 95% of the pollees dry the agent at 100 °C within an hour. E1 cm 1% at a temperature of about 565 and 405 nm in water phosphate buffer under pH 7.5 cm E1 1% 145 at about 630 nm in water phosphate buffer under pH 7.5	3	10	1	1	
E142	GREEN S	coloring agent	80% total coloring substances	3	10	1	1	

			calculated as sodium salt E1 cm 1% 1,720 at a temperature of about 632 nm in water solution					
E143	FAST GREEN FCF	coloring agent	85% total coloring substance	-	2	-	-	
E150a	CARAMEL I – Plain	coloring agent	-	1	2	1	1	
E150b	CARAMEL II – Caustic sulphite process	coloring agent	-	1	2	1	1	
E150c	CARAMEL III – Ammonia process	coloring agent	-	1	2	1	1	
E150d	CARAMEL IV – Ammonia-sulphite process	coloring agent	-	1	2	1	1	
E151	BRILLIANT BLACK PN	coloring agent	80% total coloring substances calculated as sodium salt E1 cm 1% at a temperature of about 530 and 570 nm in solution	3	10	1	1	
E153	VEGETABLE CARBON	coloring agent	95% of carbon is calculated on an anhydrous and ash-free basis	3	10	1	1	
E155	BROWN HT	coloring agent	70% total coloring substances calculated as sodium salt. E1 cm 1% at a temperature of about 403 and 460 nm in water solution under pH 7	3	10	1	1	
E160a	CAROTENES	coloring agent						
	(i) MIXED CAROTENES	1. Plant carotenes	Carotene content (calculated as beta-carotene) over 5%. For products produced by extraction of vegetable oils: over 0.2% in food fats. E1 cm 1% 2,500 approximately in 440 nm up to 457 nm in cyclohexan	-	5	-	-	
	2. Algal carotenes		Carotene content (calculated as beta-carotene) over 20% E1 cm 1% 2,500 approximately for 440 nm up to 457 nm in cyclohexan	-	5	-	-	
	1E 160a (ii) BETA-CAROTENE Beta-carotene		96% total coloring substances (in the form of beta-carotene) E1 cm 1% 2,500 approximately for 440 nm up to 457 nm in cyclohexan	-	2	-	-	
	2. Beta-carotene from Blakeslea trispora		96% total coloring substances (in the form of beta-carotene) E1 cm 1% 2,500	-	2	-	-	

			approximately in 440 nm up to 457 nm in cyclohexan					
				Mycotoxins				
				Aflatoxin B1	T-2 toxin	Ochratoxin		
				not allowed	not allowed	not allowed		
				Microbiological parameters:				
				coliforms in 5 g	salmonellae in 25 g	Moulds, CFU/g, max.		
				not allowed	not allowed	100	100	
				arsenic	lead	mercury	cadmium	
E160b	ANNATO EXTRACTS	coloring agent						
	(i) Solvent extracted bixin and norbixin		Bixin powders content over 75% from the total carotenoids calculated as bixin. Norbixin powders content over 25% from the total carotenoids calculated as norbixin Bixin: E1 cm 1% 2,870 at a temperature of about 502 nm in chloroform Norbixin: E1 cm 1% 2,870 at a temperature of about 482 nm in KOH solution	3	10	1	1	
	(ii) Alkali extracted annatto		0.1% of the total number of carotenoids in the form of norbixin Norbixin: E1 cm 1% 2 870 at a temperature of about 482 nm in KOH solution	3	10	1	1	
	(iii) Oil extracted annatto		Contains at least 0.1% of the total number of carotenoids in the form of Bixin: E1 cm 1% 2,870 at a temperature of about 502 nm in chloroform	3	10	1	1	
E160c	PAPRIKA OLEORESINS	coloring agent	Paprika extract: the content is at least 7.0% of carotenoids capsanthin/capsorubin: at least 30% of the total number of carotenoids E1 cm 1% 2,100 at a temperature of about 462 nm in acetone	3	10	1	1	

E160d	LYCOPENE	coloring agent	The content is at least 5% total coloring substances E1 cm 1% 3,450 at a temperature of about 472 nm in hexane	3	10	1	1	
E160e	BETA-APOCAROTENAL	coloring agent	96% total coloring substances E1 cm 1% 2,640 at a temperature of about 460-462 nm in cyclohexan	3	10	1	1	
E160f	BETA-APO-8'CAROTENOIC ACID, METHYL OR ETHYL ESTER	coloring agent	96% of total coloring substances E <sub>1</sub> cm 1% 2,550 at a temperature of about 449 nm in cyclohexan	3	10	1	1	
E161b	LUTEIN	coloring agent	The total coloring substance content for at least 4% calculated as Lutein E1 cm 1% 2,550 at a temperature of about 445 nm in chloroform/ethanol (10 + 90) or hex-ane/ethanol/acetone (80 + 10 + 10)	3	10	1	1	
E161g	CANTHAXANTHIN	coloring agent	96% of total coloring substances (in the form of canthaxanthin) E1 cm 1% 2,200 at a temperature of about 485 nm in chloroform under 468-472 nm cyclohexana under 464-467 nm, petroleum ether	3	10	1	1	
E162	BEET RED	coloring agent	Beet red content (in the form of betanine) constitutes at least 0.4% E1 cm 1% 1,120 at a temperature of about 535 nm in water solution under pH 5	3	10	1	1	
E163	ANTHOCYANINS	coloring agent	E1 cm 1% 300 for a pure pigment in 515-535 nm under pH 3.0	3	10	1	1	
E170	CALCIUM CARBONATE	coloring agent (surface), free-flowing agent, stabilizing agent, carrying agent	98% on anhydrous basis	3	10	-	1	
E171	TITANIUM DIOXIDE	coloring agent	99% based on aluminum and without silicon	3	10	1	1	
E172	IRON OXIDES AND HYDROXIDES	coloring agents	Yellow for at least 60%, red and black at least 68% of the total volume of iron expressed as iron	5*	20*	1*	5*	
				Note : * Upon the total dissolution				

E174	SILVER	coloring agent	99.5% Ag	-	-	-	-	
E175	GOLD	coloring agent	90% Au	-	-	-	-	
E181	TANNINS, FOOD GRADE	coloring agent, emulsifying agent, stabilizing agent	96% on dry basis	-	2	-	-	
E200	SORBIC ACID	conserving agent	99% on anhydrous basis	3	5	1	-	
E201	SODIUM SORBATE	conserving agent		3	5	1	-	
E202	POTASSIUM SORBATE	conserving agent	99% on dry basis	3	5	1	-	
E203	CALCIUM SORBATE	conserving agent	98% on dry basis	3	5	1	-	
E210	BENZOIC ACID	conserving agent	99.5% on anhydrous basis	3	5	1	-	
E211	SODIUM BENZOATE	conserving agent	99% C <sub>7</sub> H <sub>5</sub> O <sub>2</sub> Na after drying at a temperature of 105 °C within four hours	3	5	1	-	
E212	POTASSIUM BENZOATE	conserving agent	99% C <sub>7</sub> H <sub>5</sub> KO <sub>2</sub> after drying at a temperature of 105 °C to a constant weight	3	5	1	-	
E213	CALCIUM BENZOATE	conserving agent	99% after drying at a temperature of 105 °C	3	5	1	-	
E214	ETHYL p-HYDROXYBENZOATE	conserving agent	99.5% after 2 hours at a temperature of 80 °C	3	5	1	-	
E215	SODIUM ETHYL p-HYDROXYBENZOATE	conserving agent	hydroxybenzoic acid ethyl ether content at least 83% on anhydrous basis	3	5	1	-	
E218	METHYL p-HYDROXYBENZOATE	conserving agent	99% after 2 hours at a temperature of 80 °C	3	5	1	-	
E219	SODIUM METHYL p-HYDROXYBENZOATE	conserving agent	99.5% on anhydrous basis	3	5	1	-	
E220	SULPHUR DIOXIDE	conserving agent, antioxidant	99%	3	5	1	-	
E221	SODIUM SULPHITE	conserving agent, antioxidant	Anhydrous: 95% Na <sub>2</sub> SO <sub>3</sub> and at least 48% SO <sub>2</sub> heptahydrate: at least 48% Na <sub>2</sub> SO <sub>3</sub> and at least 24% SO <sub>2</sub>	3	5	1	-	
E222	SODIUM HYDROGEN SULPHITE	conserving agent, antioxidant	32% w/w NaHSO <sub>3</sub>	3	5	1	-	

E223	SODIUM METABISULPHITE	conserving agent, antioxidant	95% Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> and at least 64% SO <sub>2</sub>	3	5	1	-	
E224	POTASSIUM METABISULPHIT	conserving agent, antioxidant	90% K <sub>2</sub> S <sub>2</sub> O <sub>5</sub> and at least at least 51.8% SO <sub>2</sub> , and the rest part is almost completely comprised of potassium sulphate	3	5	1	-	
E225	POTASSIUM SULPHITE	conserving agent, antioxidant	90.0%	-	2	-	-	
E226	CALCIUM SULPHITE	conserving agent, antioxidant	95% CaSO <sub>3</sub> · 2H <sub>2</sub> O and at least 39% SO <sub>2</sub>	3	5	1	-	
E227	CALCIUM HYDROGEN SULPHITE	conserving agent, antioxidant	From 6 to 8% (weight/volume) of sulphur dioxide and from 2.5 to 3.5% (weight/volume) calcium relevant gas 10 to 14% (weight/volume) of calcium bisulphite [Ca (HSO <sub>3</sub> ) <sub>2</sub> ]	3	5	1	-	
E228	POTASSIUM BISULPHITE	conserving agent, antioxidant	280 g KHSO <sub>3</sub> for a liter (or 150 g of CO <sub>2</sub> per liter)	3	5	1	-	
E230	DIPHENYL	conserving agent	99.80%	3	5	1	-	
E231	ORTOPHENYLPHE NOL	conserving agent	99%	3	5	1	-	
E232	SODIUM OPHENYLPHENOL	conserving agent	97% of C <sub>12</sub> H <sub>9</sub> ONa· 4H <sub>2</sub> O	3	5	1	-	
E234	NISIN	conserving agent	Nisin concentrate contains at least 900 values per mg in mixtures of skim milk and solid substances with minimum sodium chloride content of 50%	1	5	1	-	
E235	PIMARICIN, NATAMYCIN	conserving agent	95% on anhydrous basis	3	5	1	-	
				Microbiological parameters:				
					QMA&OAMO CFU/g,			
				100				
				arsenic	lead	mercury	cadmium	
E236	FORMIC ACID	conserving agent						
E242	DIMETHYL DICARBONATE (VELCORIN)	conserving agent	99.80%	3	5	1	-	
E249	POTASSIUM	conserving	95% on anhydrous basis*	3	5	1	-	

	NITRITE	agent, color fixative						
E250	SODIUM NITRITE	conserving agent, color fixative	97% on anhydrous basis*	3	5	1	-	
			Note: * When marked as for the food use, it may be sold only in mixtures with salt or salt substitute.					
E251	SODIUM NITRATE	conserving agent, color fixative						
	1. SOLID SODIUM NITRATE		99% after drying	3	5	1	-	-
	2. LIQUID SODIUM NITRATE		between 33.5% and 40.0% from NaNO <sub>3</sub>	1*	1*	0,3*	-	-
				Note:* This specification refers to 35% water solution				
E252	POTASSIUM NITRATE	conserving agent, color fixative	99% on anhydrous basis	3	5	1	-	10
E260	ACETIC ACID GLACIAL	conserving agent, acidity regulator	99.80%	1	5	1	-	10
E261	POTASSIUM ACETATES	conserving agent, acidity regulator	99% on anhydrous basis	3	5	1	-	
	(i) Potassium acetate,							
	(ii) Potassium diacetate.							
E262	SODIUM ACETATES:	conserving agent, acidity regulator						
	(i) Sodium acetate,		The content (for the anhydrous and trihydrate form) at least 98.5% on anhydrous basis	3	5	1	-	
	(ii) Sodium diacetate.		The content of 39 to 41% of free acetic acid and 58 to 60% of sodium acetate	3	5	1	-	
E263	CALCIUM ACETATES	conserving agent, stabilizing agent, acidity regulator, carrying agent	98% on anhydrous basis	3	5	1	-	
E264	AMMONIUM ACETATE	acidity regulator						
E265	DEHYDROACETIC ACID	conserving agent						
E266	SODIUM DEHYDROACETATE	conserving agent						
E270	LACTIC ACID, L-, D- and DL-	acidity regulator	At least 76% and not over 84%	3*	5*	1*	-	



				Note: * This specification refers to 80% water solution, values for weak water solutions calculated as the content thereof in the lactic acid				
E280	PROPIONIC ACID	conserving agent	99.50%	3	5	1	-	
E281	SODIUM PROPIONATE	conserving agent	99% after drying within two hours at a temperature of 105 °C	3	5	1	-	
E282	CALCIUM PROPIONATE	conserving agent	99%, after drying within two hours at a temperature of 105 °C	3	5	1	-	
E283	POTASSIUM PROPIONATE	conserving agent	99%, after drying within two hours at a temperature of 105 °C	3	5	1	-	
E290	CARBON DIOXIDE	acidity regulator, propellant	99% g/g on gas basis	-	-	-	-	
E296	MALIC ACID, DL-	acidity regulator	99.00%	3	5	1	-	
E297	FUMARIC ACID	acidity regulator	99.0% on anhydrous basis	3	5	1	-	
E300	ASCORBIC ASID, L-	antioxidant	Ascorbic acid, after drying in vacuum desiccator over sulphuric acid within 24 hours contains at least 99% C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>	3	5	1	-	
E301	SODIUM ASCORBATE	antioxidant	Sodium ascorbate, after drying in vacuum desiccator over sulphuric acid within 24 hours contains at least 99% C <sub>6</sub> H <sub>7</sub> O <sub>6</sub> Na	3	5	1	-	
E302	CALCIUM ASCORBATE	antioxidant	34% of the total number of tocopherols	3	5	1	-	
E303	POTASSIUM ASCORBATE	antioxidant						
E304	ASCORBYL PALMITATE	antioxidant						
E 304 (i)	ASCORBYL PALMITATE		98% on dry basis	3	5	1	-	
E 304 (ii)	ASCORBYL STEARATE		98%	3	5	1	-	
E305	ASCORBYL STEARATE	antioxidant	95%	-	2	-	-	
E306	MIXED TOCOPHEROLS CONCENTRATE	antioxidant	34% of the total number of tocopherols	3	5	1	-	
E307	ALPHA-TOCOPHEROL	antioxidant	96%	-	2	-	-	

E308	SYNTHETIC GAMMATOCOPHE ROL	antioxidant	97%	3	5	1	-		
E309	SYNTHETIC DELTATOCOPHE ROL	antioxidant	97%	3	5	1	-		
E310	PROPYL GALLATE	antioxidant	98% on anhydrous basis	3	5	1	-		
E311	OCTYL GALLATE	antioxidant	98% after drying at a temperature of 90 °C within six hours	3	5	1	-		
E312	DODECYL GALLATE	antioxidant	98% after drying at a temperature of 90 °C within six hours	3	10	1	-		
E314	GUAIAIC RESIN	antioxidant		-	2	-	-		
E315	ISOASCORBIC ACID, ERYTHORBIC ACID	antioxidant	98% on anhydrous basis	-	2	-	-		
E316	SODIUM ISOASCORBATE	antioxidant	At least 98% materials after drying in vacuum desiccator over sulphuric acid within 24 hours, expressed on mono- hydrate basis	3	5	1	-		
E319	TERTIARY BUTYLHYDROQUI NONE	antioxidant	99% of C10H14O2	-	2	-	-		
E320	BUTYLATED HYDROXYANISOL E	antioxidant	The content of at least 98.5% C11H16O2 and at least 85% of 3-tertbutyl-4- isomer hydroxyanisole	3	5	1	-		
E321	BUTYLATED HYDROXYTOLUE NE, IONOL	antioxidant	99%	3	5	1	-		
E322	LECITHINS, PHOSPHATIDES	antioxidant, emulsifying agent	- Lecithins: at least 60.0% of substances insoluble in acetone – hydrolyzed lecithins: at least 56.0% of substances insoluble in acetone	3	5	1	-		
E325	SODIUM LACTATE	water-retaining agent, filling agent	At least 57% and not over 66%	3*	5*	1*	-		
E326	POTASSIUM LACTATE	acidity regulator	At least 57% and not over 66%	3*	5*	1*	-		
				Note: * This specification refers to 60% water solution					
E327	CALCIUM LACTATE	acidity regulator, flour processing	98% on anhydrous basis	3	5	1	-		

		substance						
E328	AMMONIUM LACTATE	acidity regulator, flour processing substance						
E329	MAGNESIUM LACTATE, DL-	acidity regulator, flour processing substance						
E330	CITRIC ACID	acidity regulator, antioxidant	Citric acid may be anhydrous or may contain 1 water molecule. Citric acid contains at least 99.5% C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> calculated on anhydrous basis	1	1	1	-	
E331	SODIUM CITRATES:	acidity regulator, emulsifying agent, stabilizing agent, carrying agent						
	(i) Sodium dihydrogen citrate,	99% on anhydrous basis		1	1	1	-	
	(ii) Disodium monohydrogen citrate,	99% on anhydrous basis		1	1	1	-	
	(iii) Trisodium citrate.	99% on anhydrous basis		1	1	1	-	
E332	POTASSIUM CITRATES:	acidity regulator, stabilizing agent, carrying agent						
	(i) Potassium dihydrogen citrate	99% on anhydrous basis		1	1	1	-	
	(ii) Tripotassium citrate.	99% on anhydrous basis		1	1	1	-	
E333	CALCIUM CITRATES	acidity regulator, stabilizing agent						
	(i) MONOCALCIUM CITRATE	97.5% on anhydrous basis		1	1	1	-	
	(ii) DICALCIUM CITRATE	97.5% on anhydrous basis		1	1	1	-	
	(iii) TRICALCIUM CITRATE	97.5% on anhydrous basis		1	1	1	-	
E334	TARTARIC ACID, L(+)-	acidity regulator, antioxidant		1	1	1	-	
E335	SODIUM TARTRATES	stabilizing agent						
	(i) Monosodium tartrate,	99% on anhydrous basis		3	5	1	-	
	(ii) Disodium tartrate.	99% on anhydrous basis		3	5	1	-	
E336	POTASSIUM TARTRATES:	stabilizing agent						
	(i) Monopotassium tartrate	99% on anhydrous basis		3	5	1	-	
	(ii) Dipotassium tartrate.	99% on anhydrous basis		3	5	1	-	
E337	POTASSIUM SODIUM TARTRATE	stabilizing agent	99% on anhydrous basis	3	5	1	-	
E338	ORTHOPHOSPHORIC ACID	acidity regulator, antioxidant	Phosphoric acid is commercially available in the form of a water solution at a variable concentration. The content at least 67.0% and not over 85.7%.	3*	-	1*	1*	

			Note: * This specification refers to 75% water solution				
E339	SODIUM PHOSPHATES:	acidity regulator, emulsifying agent, water-retaining agent, stabilizing agent, emulsifying salt					
	(i) Monosodium orthophosphate,	After drying at a temperature of 60 °C within an hour, and then at a temperature of 105 °C within four hours, contains at least 97% of NaH <sub>2</sub> PO <sub>4</sub>	3	4	1	1	
	(ii) Disodium orthophosphate,	After drying at a temperature of 40 °C within three hours, and then at a temperature of 105 °C within five hours, contains at least 98% of Na <sub>2</sub> HPO <sub>4</sub>	3	4	1	1	
	(iii) Trisodium orthophosphate.	Anhydrous sodium phosphate and hydrated forms, except for dodecahydrate, contains at least 97.0% of Na <sub>3</sub> PO <sub>4</sub> calculated on dry basis. Dodecahydrate sodium phosphate contains at least 92.0% of Na <sub>3</sub> PO <sub>4</sub> shall be calculated on ignition basis	3	4	1	1	
E340	POTASSIUM PHOSPHATES:	acidity regulator, emulsifying agent, water-retaining agent, stabilizing agent, emulsifying salt					
	(i) Monopotassium orthophosphate,	98.0% after drying at a temperature of 105 °C within four hours	3	4	1	1	
	(ii) Dipotassium orthophosphate,	98.0% after drying at a temperature of 105 °C within four hours	3	4	1	1	
	(iii) Tripotassium orthophosphate.	97% calculated on ignition basis	3	4	1	1	
E341	CALCIUM PHOSPHATES:	acidity regulator, flour processing substance, stabilizing agent, leavening agent, free-flowing agent, water-retaining agent, emulsifying salt, carrying agent					
	(i) Monocalcium orthophosphate,	95% on dry basis	3	4	1	1	
	(ii) Dicalcium orthophosphate,	Dicalcium phosphate, after drying at a temperature of 200 °C within three hours, contains at least 98% and not over than the equivalent 102% CaHPO <sub>4</sub>	3	4	1	1	
	(iii) Tricalcium orthophosphate.	90% calculated on ignition basis	3	4	1	1	
E342	AMMONIUM PHOSPHATES:	acidity regulator, flour processing substance					
	(i) Monoammonium orthophosphate,		3	4	1	1	
	(ii) Diammonium orthophosphate.		3	4	1	1	

E343	MAGNESIUM PHOSPHATES:	acidity regulator, free-flowing agent						
	(i) Monomagnesium orthophosphate,	51.0% after ignition	3	4	1	1		
	(ii) Dimagnesium orthophosphate,	96% after ignition	3	4	1	1		
	(iii) Trimagnesium orthophosphate.	98% of Mg <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> after ignition at 425o	-	4	-	-		
E350	SODIUM MALATES:	acidity regulator, water-retaining agent, emulsifying agent, stabilizing agent, emulsifying salt						
	(i) Sodium hydrogen malate,	98.0% on anhydrous basis	3	5	1	-		
	(ii) Sodium malate.	99.0% on anhydrous basis	3	5	1	-		
E351	POTASSIUM MALATES:	acidity regulator, water-retaining agent, emulsifying agent, stabilizing agent, emulsifying salt	59.50%	3	5	1	-	
	(i) Potassium hydrogen malate,							
	(ii) Potassium malate.							
E352	CALCIUM MALATES:	acidity regulator, water-retaining agent, emulsifying agent, stabilizing agent, emulsifying salt						
	(i) Calcium hydrogen malate,	97.5% on anhydrous basis	3	5	1	-		
	(ii) Calcium malate.	97.5% on anhydrous basis	3	5	1	-		
E353	METATARTARIC ACID	acidity regulator	99.50%	3	5	1	-	
E354	CALCIUM TARTRATE	acidity regulator	98.00%	3	5	1	-	
E355	ADIPIC ACID	acidity regulator	99.60%	3	5	1	-	
E356	SODIUM ADIPATES	acidity regulator	99.0% (on anhydrous basis)	3	5	1	-	
E357	POTASSIUM ADIPATES	acidity regulator	99.0% (on anhydrous basis)	3	5	1	-	
E359	AMMONIUM ADIPATES	acidity regulator						
E363	SUCCINIC ACID	acidity regulator	99.00%	3	5	1	-	
E365	SODIUM FUMARATES	acidity regulator	At least 98.0% and not over 102.0% on dry basis	-	2	-	-	
E380	AMMONIUM CITRATES	acidity regulator		3	5	1	-	

E381	FERRIC AMMONIUM CITRATE	acidity regulator	At least 16.5% and not over 22.5% iron (Fe) for brown salts, and at least 14.5% and not over 16.0% of iron (Fe) for green salts.	-	2	-	-	
E384	ISOPROPYL CITRATES	antioxidant, conserving agent		-	2	-	-	
E385	CALCIUM DISODIUM EDTA	antioxidant, conserving agent		3	5	1	-	
E386	DISODIUM ETHYLENEDIAMINE-TETRA ACETATE	antioxidant, conserving agent	99.00%	-	2	-	-	
E387	OXYSTEARIN	antioxidant,						
E400	ALGINIC ACID	thickening agent, stabilizing agent, carrying agent	Alginic acid produces, on anhydrous basis, at least 20% and not over 23% of carbon dioxide (CO <sub>2</sub> ), which corresponds to at least 91% and not over 104.5% of alginic acid (C <sub>6</sub> H <sub>8</sub> O <sub>6</sub> ) <sub>n</sub> (calculated at the equivalent of 200)	3	5	1	1	
				Microbiological parameters:				
				QMA&O A MO CFU/g, maximum	Coliforms, in 5 g	salmonella, in 10 g	Yeast, moulds CFU/g, maximum	
				5,000	Not allowed	Not allowed	500	
				Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	
E401	SODIUM ALGINATE	thickening agent, stabilizing agent, carrying agent	Yield level, on anhydrous basis, at least 18% and not over 21% of carbon dioxide corresponds to at least 90.8% and not over 106.0% of sodium alginate (in terms of the equivalent weight of 222)	3	5	1	1	
				Microbiological parameters:				
				QMA&O A MO CFU/g, maximum	Coliforms, in 5 g	salmonella, in 10 g	Yeast, moulds CFU/g, maximum	
				5,000	Not allowed	Not allowed	500	
				Toxic elements, mg/kg, maximum				

				arsenic	lead	mercury	cadmium	
E402	POTASSIUM ALGINATE	thickening agent, stabilizing agent	Yield level, on anhydrous basis, at least 16.5% and not over 19.5% of carbon dioxide corresponds to at least 89.2% and not over 105.5% of potassium alginate (in terms of the equivalent weight of 238)	3	5	1	1	
				Microbiological parameters:				
				QMA&O A MO CFU/g, maximum	Coliforms, in 5 g	salmonella, in 10 g	Yeast, moulds CFU/g, maximum	
				5,000	Not allowed	Not allowed	500	
E403	AMMONIUM ALGINATE	thickening agent, stabilizing agent, carrying agent	Yield level, on anhydrous basis, at least 18% and not over 21% of carbon dioxide corresponds to at least 88.7% and not over 103.6% of ammonium alginate (in terms of the equivalent weight of 217)	3	5	1	1	
				Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	
E404	CALCIUM ALGINATE	thickening agent, stabilizing agent, defoaming agent, carrying agent	Yield level, on anhydrous basis, at least 18% and not over 21% of carbon dioxide corresponds to at least 89.6% and not over 104.5% of calcium alginate (in terms of the equivalent weight of 219)	3	5	1	1	
				Microbiological parameters:				
				QMA&O A MO CFU/g, maximum	Coliforms, in 5 g	salmonella, in 10 g	Yeast, moulds CFU/g, maximum	
				5,000	Not allowed	Not allowed	500	
				Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	
E405	PROPYLENE GLYCOL ALGINATE	thickening agent, emulsifying agent, carrying agent	Yield level or productivity, on anhydrous basis, at least 16% and not over 20% of CO <sub>2</sub> (carbon dioxide)	3	5	1	1	

				Microbiological parameters:			
				QMA&O A MO CFU/g, maximum	Colif orms, in 5 g	salmonella e, in 10 g	Yeast, moulds CFU/g, maximum
				5,000	Not allo wed	Not allowed	500
				Toxic elements, mg/kg, maximum			
				arsenic	lead	mercury	cadmium
E406	AGAR	thickening agent, jellifying agent, stabilizing agent, carrying agent	Gel threshold concentration must not exceed 0.25%	3	5	1	1
E407	CARRAGEENAN AND ITS Na, K, NH4 SALTS (INCLUDES FURCELLARAN	thickening agent, jellifying agent, stabilizing agent, carrying agent		3	5	1	1
				Microbiological parameters:			
				QMA&O A MO CFU/g, maximum	Colif orms, in 5 g	salmonella e, in 10 g	Yeast, moulds CFU/g, maximum
				5,000	Not allo wed	Not allowed	500
				Toxic elements, mg/kg, maximum			
				arsenic	lead	mercury	cadmium
E407a	CARRAGEENAN PES- PROCESSED EUCHEMA SEAWEED	thickening agent, jellifying agent, stabilizing agent, carrying agent		3	5	1	1
				Microbiological parameters:			
				QMA&O A MO CFU/g, maximum	Colif orms, in 5 g	salmonella e, in 10 g	Yeast, moulds CFU/g, maximum
				5,000	Not allo wed	Not allowed	500
				Toxic elements, mg/kg, maximum			
				arsenic	lead	mercury	cadmium
E409	ARABINOGALACT	thickening agent, jellifying agent, stabilizing					



	AN	agent						
E410	CAROB BEAN GUM	thickening agent, stabilizing agent, carrying agent	Galactomannan content at least 75%	3	5	1	1	
E412	GUAR GUM	thickening agent, stabilizing agent, carrying agent	Galactomannan content at least 75%	3	5	1	1	
E413	TRAGACANTH GUM	thickening agent, stabilizing agent, emulsifying agent, carrying agent		3	5	1	1	
				Microbiological parameters:				
				Coliforms, in 5 g	salmonellae, in 10 g			
				Not allowed	Not allowed			
				Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	
E414	GUM ARABIC (ACACIA GUM)	thickening agent, stabilizing agent, carrying agent		3	5	1	1	
E415	XANTAN GUM	thickening agent, stabilizing agent, carrying agent	Productivity, on dry basis, at least 4.2% and not over 5% of CO <sub>2</sub> corresponding to between 91% and 108% of xanthan gum	-	2	-	-	
				Microbiological parameters: Xanthomonas campestris – cells are absent in 1 g				
				Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	
E416	KARAYA GUM	thickening agent, stabilizing agent		3	5	1	1	
				Microbiological parameters:				
				Coliforms, in 5 g	salmonellae, in 10 g			
				Not allowed	Not allowed			
				Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	
E417	TARA GUM	thickening agent, stabilizing agent		3	5	1	1	
E418	GELLAN GUM	thickening agent,	Productivity, on dry basis, at least 3.3% and not over 6.8%	3	5	1	1	

		stabilizing agent, jellifying agent	of CO <sub>2</sub>					
				Microbiological parameters:				
				QMA&O A MO CFU/g, maximum	Colif orms, in 5 g	salmonella, in 10 g	Yeast and moulds, CFU/g maximum	
				10,000	Not allo wed	Not allowed	400	
				Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	
E420	SORBITOL AND SORBITOL SYRUP	sweetening agent, water-retaining agent, emulsifying agent, carrying agent						
	(i) SORBITOL		At least 97.0% of the total C <sub>6</sub> H <sub>14</sub> O <sub>6</sub> glycitols and at least 91.0% of compounds with the structural formula	-	1	-	-	
			CH <sub>2</sub> OH-(CHOH) n-CH <sub>2</sub> OH, where n of D-sorbitol is on anhydrous basis. The term refers to glycitols integer less than or equal to 4.					
	(ii) SORBITOL SYRUP		At least 99.0% of hydrogenated saccharides and at least 50.0% of Dsorbitol on anhydrous basis	-	1	-	-	
E421	MANNITOL	sweetening agent, free- flowing agent, carrying agent	At least 96.0% and not over 102.0% on dry basis	-	1	-	-	
E422	GLYCEROL	water-retaining agent, thickening agent, carrying agent	98% glycerol on anhydrous basis	3	2	1	-	
E425	KONJAC (KONJAC FLOUR):	thickening agent						
	(i) KONJAC GUM,		75% carbohydrates	3	2	-	-	
	(ii) KONJAC GLUCOMANNANE.		Total cellulose: at least 95% of dry weight	-	1	-	-	
				Microbiological parameters:				
				Colifor ms, in 5 g	salmonellae, in 12.5 g			
				Not allowe	Not allo			

				d	wed			
				Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	
E426	SOYBEAN HEMICELLULOSE	thickening agent, stabilizing agent	74% carbohydrate	2	5	1	1	-
				Microbiological parameters:				
				QMA&O A MO CFU/g, maximum	Coliforms, in 10 g	Yeast and moulds, CFU/g maximum		
				3,000	Not allowed	100		
				Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	
E430	POLYOXYETHYLENE (8) STEARATE	emulsifying agent	At least 53.0 and not over 57.0% of oxyethylene group equivalent to at least 96.0 and not over 103.0% of polyoxyethylene (8) stearate calculated on anhydrous basis.	-	2	-	-	
E431	POLYOXYETHYLENE (40) STEARATE	emulsifying agent	97.5% on anhydrous basis	3	5	1	1	
E432	POLYOXYETHYLENE (20) SORBITAN MONOLAURATE, Tween 20	emulsifying agent, carrying agent	Content at least 70% of oxyethylene group equivalent to at least 97.3% of polyoxyethylene (20) sorbitanmonolaurate on anhydrous basis	3	5	1	1	
E433	POLYOXYETHYLENE (20) SORBITAN MONOOLEATE, Tween 80	emulsifying agent, carrying agent	Content at least 65% oxyethylene group equivalent at least 96.5% of polyoxyethylene (20) sorbitanmonooleate on anhydrous basis	3	5	1	1	
E434	POLYOXYETHYLENE (20) SORBITAN MONOPALMITATE, Tween 40	emulsifying agent, carrying agent	Content at least 66% of oxyethylene group equivalent to at least 97% of polyoxyethylene (20) sorbitan monopalmitate on anhydrous basis	3	5	1	1	
E435	POLYOXYETHYLENE (20) SORBITAN MONOSTEARATE, Tween 60	emulsifying agent, carrying agent	Content at least 65% of oxyethylene group equivalent to at least 97% of polyoxyethylene (20) sorbitan monostearate on anhydrous	3	5	1	1	

			basis					
E436	POLYOXYETHYLENE (20) SORBITAN TRISTEARATE	emulsifying agent, carrying agent	Content at least 46% of oxyethylene group equivalent to at least 96% of polyoxyethylene (20) sorbitan tristearate on anhydrous basis	3	5	1	1	
E440	PECTINS	thickening agent, stabilizing agent, jellifying agent, carrying agent						
	(i) PECTIN		Content at least 65% of galacturonic acid on ash-free and anhydrous basis after acid and alcohol washing	3	5	1	1	
	(ii) AMIDATED PECTIN		Content at least 65% of galacturonic acid on ash-free and water basis after acid and alcohol washing	3	5	1	1	
E442	AMMONIUM SALTS OF PHOSPHATIDIC ACID (ammonium phosphatides)	emulsifying agent, carrying agent	Phosphate content at least 3% and not over 3.4% by weight; ammonium content at least 1.2% and not over 1.5% (calculated as N),	3	5	1	1	
E444	SUCROSE ACETATE ISOBUTIRAT	emulsifying agent, stabilizing agent	98.8% and not over 101.9% of C <sub>40</sub> H <sub>62</sub> O <sub>19</sub>	3	3	1	1	
E445	GLYCEROL ESTERS OF WOOD RESIN	emulsifying agent, stabilizing agent		3	2	1	1	
E450	DIPHOSPHATES:							
	(i) Disodium diphosphate,	than 95% of disodium phosphate		3	4	1	1	
	(ii) Trisodium diphosphate,	95% on anhydrous basis		3	4	1	1	
	(iii) Tetrasodium diphosphate;	95% of Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> on ignition basis		3	4	1	1	
	(iv) Dipotassium diphosphate,							
	(v) Tetrapotassium diphosphate,	95% on ignition basis		3	4	1	1	
	(vi) Dicalcium diphosphate,	96%		3	4	1	1	
	(vii) Calcium dihydrogen diphosphate.	90% on anhydrous basis		3	4	1	1	
E451	TRIPHOSPHATES:	acidity regulator						
	(i) Pentasodium triphosphate,	85.0% (anhydrous) or 65.0% (hexahydrate)		3	4	1	1	
	(ii) Pentapotassium triphosphate.	85% on anhydrous basis		3	4	1	1	
E452	POLYPHOSPHATES :	emulsifying agent, stabilizing agent, water-retaining agent						
	(i) Sodium polyphosphate,							

	1. SOLUBLE POLYPHOSPHATE		P2O5 content at least 60% and not over 71% on ignition basis	3	4	1	1	-
	2. INSOLUBLE POLYPHOSPHATE		P2O5 content at least 68.7% and not over 70.0%	3	4	1	1	-
	(ii) Potassium polyphosphate,		P2O5 content at least 53.5% and not over 61.5% on firing basis	3	4	1	1	-
	(iii) Sodiumcalcium polyphosphate,		At least 61% and not over 69% as P2O5	3	4	1	1	-
	(iv) Calcium polyphosphates,		P2O5 content at least 71% and not over 73% on firing basis	3	4	1	1	-
	(v) Ammonium polyphosphates.		At least 55.0% and not over 75.0% on anhydrous basis, calculated as P2O5	-	4	-	-	-
E459	BETA-CYCLODEXTRIN	stabilizing agent, carrying agent	98.0% of (C6H10O5) 7 on anhydrous basis	1	1	-	-	-
E460	CELLULOSE:	emulsifying agent, free-flowing agent, carrying agent						
	(i) Microcrystalline cellulose,		97% calculated as cellulose on anhydrous basis	3	5	1	1	10
	(ii) Powdered cellulose.		92%	3	5	1	1	10
E461	METHYL CELLULOSE	thickening agent, emulsifying agent, stabilizing agent, carrying agent	Content at least 25% and not over 33% of methoxy group (-OCH3) and not over 5% of hydroxyethoxyl group (-OCH2CH2OH)	3	5	1	1	20
E462	ETHYL CELLULOSE	filling agent, carrying agent	Content at least 44% and not over 50% of ethoxyl group (-OC2H5) on dry basis (at the equivalent not over 2.6 of ethoxyl group for anhydroglucose block)	3	2	1	1	-
E463	HYDROXYPROPYL CELLULOSE	thickening agent, emulsifying agent, stabilizing agent	Content at least 80. 5% of hydroxypropoxyl group (-OCH2CHOHCH3), equivalent to not over 4,6 hydroxypropyl group for anhydroglucose block ona anhydrous basis	3	5	1	1	20
E464	HYDROXYPROPYL METHYL CELLULOSE	thickening agent, emulsifying agent, stabilizing	Content at least 19% and not over 30% of metoxy group (-OCH3) and at least 3% and not over 12%of hydroxypropoxyl group (-	3	5	1	1	20

		agent, carrying agent	OCH <sub>2</sub> CHOHCH <sub>3</sub> ), on anhydrous basis					
E465	METHYL ETHYL CELLULOSE	thickening agent, emulsifying agent, stabilizing agent, foaming agent, carrying agent	Content on anhydrous basis at least 3.5% and not over 6.5% of methoxy group (-OCH <sub>3</sub> ) and at least 14.5% and not over 19% of ethoxyl group (OCH <sub>2</sub> CH <sub>3</sub> and at least 13.2% and not over 19.6% of the total number of alkoxy group, calculated as	3	5	1	1	20
E466	CARBOXYMETHYL CELLULOSE	thickening agent, stabilizing agent, carrying agent						
	SODIUM CARBOXYMETHYL CELLULOSE		Content on anhydrous basis at least 99.5%	3	5	1	1	20
	CELLULOSE GUM							
E467	ETHYL HYDROXYETHYL CELLULOSE	emulsifying agent, thickening agent, stabilizing agent	At least 7% and not over 19% of ethoxyl group (-OC <sub>2</sub> H <sub>5</sub> ), and at least 10% and not over 38% of oxyethylene group (-OCH <sub>2</sub> CH <sub>2</sub> -), on dry and salt-free basis.	-	5	-	-	-
E468	CROSCARAMELLOSE (CROSS-LINKED SODIUM CARBOXYMETHYL CELLULOSE)	stabilizing agent, carrying agent		3	5	1	1	-
E469	ENZYMATICALLY HYDROLYSED CARBOXYMETHYL CELLULOSE	thickening agent, stabilizing agent, carrying agent	At least 99.5%, including mono- and disaccharides, on dry basis	-	3	-	-	-
	ENZYMATICALLY HYDROLYSED CELLULOSE GUM							
E470	SALTS OF FATTY ACIDS (with base Al, Ca, Na, Mg, K and NH <sub>4</sub> )	emulsifying agent, stabilizing agent, free-flowing agent, carrying agent						
E470a	SODIUM, POTASSIUM AND CALCIUM SALTS OF FATTY ACIDS		Content on anhydrous basis at least 95%	3	5	1	1	10
E470b	MAGNESIUM SALTS OF FATTY ACIDS		Content on anhydrous basis at least 95%	3	5	1	1	10
E471	MONO- AND DIGLYC-	emulsifying agent	Mono- and diesters content: at least	3*	5*	1*	1*	10*
	ERIDES OF FATTY ACIDS	agent, stabilizing agent, carrying agent	70%					
E472a	ESTERS ACETIC	emulsifying agent, stabilizing agent, carrying agent		3*	5*	1*	1*	10*

	AND FATTY ACID OF GLYCEROL	agent						
E472b	ESTERS LACTIC AND FATTY ACID OF GLYCEROL	emulsifying agent, stabilizing agent		3*	5*	1*	1*	10*
E472c	CITRIC AND FATTY ACID ESTERS OF GLYCEROL	emulsifying agent, stabilizing agent, carrying agent		-	2*	-	-	-
E472d	TARTARIC ACID ESTERS OF MONO- AND DIGLYCERIDES OF FATTY ACIDS	emulsifying agent, stabilizing agent		3*	5*	1*	1*	10*
E472e	DIACETYLTARTARIC AND FATTY ACID ESTERS OF GLYCEROL	emulsifying agent, stabilizing agent, carrying agent		3*	5*	1*	1*	10*
E472f	MIXED TARTARIC, ACETIC AND FATTY ACID ESTERS OF GLYCEROL	emulsifying agent, stabilizing agent,		3*	5*	1*	1*	10*
E473	SUCROSE ESTERS OF FATTY ACIDS	emulsifying agent, carrying agent	80%	3*	5*	1*	1*	10*
E474	SUCROGLYCERIDES	emulsifying agent	At least 40% and not over 60% of sucrose esters of fatty acids	3*	5*	1*	1*	10*
E475	POLYGLYCEROL ESTERS OF FATTY ACIDS	emulsifying agent, carrying agent	Total esters of fatty acids content at least 90%	3*	5*	1*	1*	10*
				Note: * Note: the purity criterion applies to the safety of sodium, potassium and calcium additives, fatty acids salts, however these substances may be represented up to the maximum level of 6% (in the form of sodium oleate).				
E476	POLYGLYCEROL ESTERS OF INTERESTERIFIED RICINOLEIC ACID	emulsifying agent		3	5	1	1	10
E477	PROPYLENE GLYCOL ESTERS OF FATTY ACIDS	emulsifying agent	Esters of fatty acids content at least 85%	3*	5*	1*	1*	10*
				Note: * Note: the purity criterion applies to the safety of sodium, potassium and calcium additives, fatty acids salts, however these substances may be represented up to the maximum level of 6% (in the form of sodium oleate).				

E479	THERMALLY OXIDIZED SOYABEAN OIL WITH MONO- AND DIGLYCERIDES OF FATTY ACIDS	emulsifying agent						
E479b	THERMALLY OXIDISED SOYA BEAN OIL INTERACTED WITH MONO- AND DIGLYCERIDES OF FATTY ACIDS			3	5	1	1	10
E480	DIOCTYL SODIUM SULPHOSUCCINATE	emulsifying agent, water-retaining agent	98.5% on dry basis	-	2	-	-	-
E481	SODIUM STEAROYL - 2LACTYLATE	emulsifying agent, stabilizing agent		3	5	1	1	10
E482	CALCIUM STEAROYL - 2LACTYLATE	emulsifying agent, stabilizing agent		3	5	1	1	10
E483	STEARYL TARTRATE	flour processing substance	The total ester content is at least 90% of corresponding esters of the value at least 163 and not over 180	3	5	1	1	10
E484	STEARYL CITRATE	emulsifying agent		-	2	-	-	-
E491	SORBITAN MONOSTEARATE, SPAN 60	emulsifying agent, carrying agent	The content at least 95% of a mixture of sorbitol, sorbitol and esters isosorbide	3	5	1	1	10
E492	SORBITAN TRISTEARATE	emulsifying agent, carrying agent	The content at least 95% of a mixture of sorbitol, sorbitol and esters isosorbide	3	5	1	1	10
E493	SORBITAN MONOLAURATE, SPAN 20	emulsifying agent, carrying agent	The content at least 95% of a mixture of sorbitol, sorbitol and esters isosorbide	3	5	1	1	10
E494	SORBITAN MONOOLEATE, SPAN 80	emulsifying agent, carrying agent	The content at least 95% of a mixture of sorbitol, sorbitol and esters isosorbide	3	5	1	1	10
E495	SORBITAN MONOPALMITATE, SPAN 40	emulsifying agent, carrying agent	The content at least 95% of a mixture of sorbitol, sorbitol and esters isosorbide	3	5	1	1	10
E500	SODIUM CARBONATES:	acidity regulator, leavening agent, free-flowing agent						
	(i) Sodium carbonate,	99% of Na <sub>2</sub> CO <sub>3</sub> on anhydrous basis		3	5	1	-	-
	(ii) Sodium hydrogen carbonate,	99% on anhydrous basis		3	5	1	-	-
	(iii) Sodium sesquicarbonate.	between 35.0% and 38.6% of NaHCO <sub>3</sub> and between 46.4% and 50.0% of Na <sub>2</sub> CO <sub>3</sub>		3	5	1	-	-
E501	POTASSIUM CARBONATES:	acidity regulator, stabilizing agent, carrying agent						-



	(i) Potassium carbonate,		99.0% on anhydrous basis	3	5	1	-	-
	(ii) Potassium hydrogen carbonate.		The content at least 99.0% and not over 101.0% of KHCO <sub>3</sub> on anhydrous basis	3	5	1	-	-
E503	AMMONIUM CARBONATES:	acidity regulator, leavening agent						
	(i) Ammonium carbonate,		At least 30.0% and not over 34.0% of NH <sub>3</sub>	3	5	1	-	-
	(ii) Ammonium hydrogen carbonate.		99.00%	3	5	1	-	-
E504	MAGNESIUM CARBONATES:	acidity regulator, free-flowing agent, color fixative, carrying agent						
	(i) Magnesium carbonate,		At least 24.0% and not over 26.4% of Mg	-	2	-	-	-
	(ii) Magnesium hydrogen carbonate.		Mg content at least 40.0% and not over 45.0% calculated as MgO	3	10	1	-	-
E507	HYDROCHLORIC ACID	acidity regulator	Hydrochloric acid is commercially available in various concentrations. Concentrated hydrochloric acid contains at least 35.0% of HCl	1	1	1	-	-
E508	POTASSIUM CHLORIDE	jellifying agent, carrying agent	99% on dry basis	3	5	1	1	10
E509	CALCIUM CHLORIDE	firming agent, carrying agent	93.0% on anhydrous basis	3	10	1	-	-
E510	AMMONIUM CHLORIDE	flour processing substance	99.0% on dry basis	-	2	-	-	-
E511	MAGNESIUM CHLORIDE	firming agent, carrying agent	99.00%	3	10	1	-	-
E513	SULPHURIC ACID	acidity regulator	Sulphuric acid is commercially available in various concentrations. The concentrated form contains at least 96.0%	3	5	1	-	-
E514	SODIUM SULPHATES	acidity regulator, carrying agent						
	(i) SODIUM SULPHATE		99.0% on anhydrous basis	3	5	1	-	-
	(ii) SODIUM HYDROGEN SULPHATE		95.20%	3	5	1	-	-
E515	POTASSIUM SULPHATES	acidity regulator, carrying agent						
	(i) POTASSIUM SULPHATE		99.00%	3	5	1	-	-
	(ii) POTASSIUM HYDROGEN		99.00%	3	5	1	-	-

	SULPHATE							
E516	CALCIUM SULPHATE	flour processing substance, firming agent, carrying agent	99.0% on anhydrous basis	3	5	1	-	-
E517	AMMONIUM SULPHATE	flour processing substance, stabilizing agent, carrying agent	at least 99.0% and not over 100.5%	-	5	-	-	-
E518	MAGNESIUM SULPHATE	firming agent	At least 99.0% and not over 100.5% on ignition basis	3	2	-	-	-
E520	ALUMINIUM SULPHATE	firming agent	99.5% on ignition basis	3	10	1	-	-
E521	ALUMINIUM SODIUM SULPHATE	firming agent	The content on anhydrous basis at least 96.5% (anhydrous) and 99.5% (dodecahydrate)	3	5	1	-	-
E522	ALUMINIUM POTASSIUM SULPHATE	acidity regulator, stabilizing agent	99.50%	3	5	1	-	-
E523	ALUMINIUM AMMONIUM SULPHATE	stabilizing agent, firming agent	99.50%	3	5	1	-	-
E524	SODIUM HYDROXIDE	acidity regulator	The content of solid drug formulations at least 98.0% of the total number of alkali (like NaOH). The solution content, respectively, is based on the specified or superscript per cent of NaOH	3	0.5	1	-	-
E525	POTASSIUM HYDROXIDE	acidity regulator	85.0% of alkali calculated as KOH	3	10	1	-	-
E526	CALCIUM HYDROXIDE	acidity regulator, firming agent	92.00%	3	5	1	-	-
E527	AMMONIUM HYDROXIDE	acidity regulator	27% of NH3	3	5	-	-	-
E528	MAGNESIUM HYDROXIDE	acidity regulator, color fixative	95.0% on anhydrous basis	3	10	-	-	-
E529	CALCIUM OXIDE	acidity regulator, flour processing substance	95.0% on firing basis	3	10	-	-	-
E530	MAGNESIUM	free-flowing	98.0% on firing basis	3	10	-	-	-

	OXIDE	agent						
E535	SODIUM FERROCYANIDE	free-flowing agent	99.00%	-	5	-	-	-
E536	POTASSIUM FERROCYANIDE	free-flowing agent	99.00%	-	5	-	-	-
E538	CALCIUM FERROCYANIDE	free-flowing agent	99.00%	-	5	-	-	-
E541	SODIUM ALUMINIUM PHOSPHATE ACIDIC	acidity regulator, emulsifying agent	95.0% (both forms)	3	4	1	1	-
E542	BONE PHOSPHATE (essentiale Calcium phosphate, tribasic)	emulsifying agent, free-flowing agent, water-retaining agent	At least 30% and not over 40% of Ca, and at least 32% of P2O5.	3	2	-	-	-
				Microbiological parameters:				
				The total number of aerobic microorganisms CFU/g, maximum	Coliforms, in 10 g	salmonellae, in 50 g		
				1,000	Not allowed	Not allowed		
E551	SILICON DIOXIDE AMORPHOUS	free-flowing agent, carrying agent	The content after ignition at least 99.0% (carbon white), or 94.0% (hydrated forms)	3	5	1	-	-
E552	CALCIUM SILICATE	free-flowing agent, carrying agent	The content on anhydrous basis: - as SiO2 at least 50% and not over 95% - as CaO at least 3% and not over 35%	3	5	1	-	-
E553	MAGNESIUM SILICATES:	free-flowing agent						
	(i) Magnesium silicate,		Content at least 15% of MgO and at least 67% of SiO2 on firing basis	3	5	1	-	-
	(ii) Magnesium trisilicate,		Content at least 29.0% of MgO and at least 65.0% of SiO2 on firing basis	3	5	1	-	-
	(iii) Talc (Talc).			10	5	-	-	-
E554	SODIUM ALUMINOSILICATE	free-flowing agent	The content on anhydrous basis: - as SiO2 at least 66.0% and not over 88.0% - as Al2O3 at least 5.0% and not over	3	5	1	-	-

			15.0%					
E555	POTASSIUM ALUMINIUM SILICATE	free-flowing agent	98%	3	10	1	2	-
E556	CALCIUM ALUMINIUM SILICATE	free-flowing agent	The content on anhydrous basis: - as SiO <sub>2</sub> at least 44.0% and not over 50.0% - as Al <sub>2</sub> O <sub>3</sub> at least 3.0% and not over 5.0% - as CaO at least 32.0% and not over 38.0	3	10	1	-	-
E558	BENTONITE	free-flowing agent, carrying agent	Montmorillonite content at least 80%	2	20	-	-	-
E559	ALUMINIUM SILICATE (KAOLIN)	free-flowing agent, carrying agent	The content at least 90% (the total of silica and alumina after ignition), silicon (SiO <sub>2</sub> ) between 45% and 55% alumina (Al <sub>2</sub> O <sub>3</sub> ) from 30% to 39%	3	5	1	-	-
E570	FATTY ACIDS	stabilizing agent, glazing agent, defoaming agent, carrying agent	98% by means of chromatography	3	1	1	-	-
E574	GLUCONIC ACID (D-)	acidity regulator, antioxidant, leavening agent 50.0% (in gluconic acid)	50.0% (in gluconic acid)	3	5	1	-	-
E575	GLUCONO DELTALACTONE	acidity regulator, antioxidant, leavening agent	99.0% on anhydrous basis	-	2	-	-	-
E576	SODIUM GLUCONATE	acidity regulator, antioxidant	98.00%	-	2	-	-	-
E577	POTASSIUM GLUCONATE	acidity regulator, antioxidant, carrying agent	at least 97.0% and not over 103.0% on dry basis	-	2	-	-	-
E578	CALCIUM GLUCONATE	acidity regulator, firming agent	at least 98.0% and not over 102% on anhydrous and monohydrate basis	-	2	-	-	-
E579	FERROUS GLUCONATE	color fixative	95% on dry basis	3	5	1	1	-
E580	MAGNESIUM	acidity	At least 98.0% and not over	-	2	-	-	-

	GLUCONATE	regulator, antioxidant, firming agent	102.0% on anhydrous basis					
E585	FERROUS LACTATE	color fixative	96% on dry basis	3	5	1	1	-
E586	4- HEXYLRESORCIN OL	antioxidant	98% on dry basis	-	2	3	-	-
E620	GLUTAMIC ACID, L(+)-)	taste and flavor enhancer	At least 99.0% and not over 101.0% on anhydrous basis	-	2	-	-	-
E621	MONOSODIUM GLUTAMATE	taste and flavor enhancer	Content at least 99.0% and not over 101.0% on anhydrous basis	-	2	-	-	-
E622	MONOPOTASSIUM GLUTAMATE	taste and flavor enhancer	Content at least 99.0 and not over 101.0% on anhydrous basis	-	2	-	-	-
E623	CALCIUM GLUTAMATE	taste and flavor enhancer	at least 98,0% and not over 102.0% on anhydrous basis	-	2	-	-	-
E624	MONOAMMONIUM GLUTAMATE	taste and flavor enhancer	at least 99.0% and not over 101.0% on anhydrous basis	-	2	-	-	-
E625	MAGNESIUM GLUTAMATE	taste and flavor enhancer	at least 95,0% and not over 105.0%, on anhydrous basis	-	2	-	-	-
E626	GUANYLIC ACID	taste and flavor enhancer	than 97.0% on anhydrous basis	-	2	-	-	-
E627	DISODIUM 5'GUANYLATE	taste and flavor enhancer	97.0% on anhydrous basis	-	2	-	-	-
E628	DIPOTASSIUM 5'GUANYLATE	taste and flavor enhancer	97.0% on anhydrous basis	-	2	-	-	-
E629	CALCIUM 5'- GUANYLATE	taste and flavor enhancer	97.0% on anhydrous basis	-	2	-	-	-
E630	INOSINIC ACID	taste and flavor enhancer	97.0% on anhydrous basis	-	2	-	-	-
E631	DISODIUM 5'- INOSINATE	taste and flavor enhancer	97.0% on anhydrous basis	-	2	-	-	-
E632	POTASSIUM INOSINATE	taste and flavor enhancer	97.0% on anhydrous basis	-	2	-	-	-
E633	CALCIUM 5'-INO	taste and flavor enhancer	97.0% on anhydrous basis	-	2	-	-	-
E634	CALCIUM 5'RIBONUCLEOTID ES	taste and flavor enhancer	The content and basic components at least 97.0%, and each component at least 47.0% and not over 53%, in each case on anhydrous basis	-	2	-	-	-
E635	DISODIUM 5' RIBONUCLEOTIDE S	taste and flavor enhancer	The content and basic components at least 97.0%, and each component at least 47.0% and not over 53%, in	-	2	-	-	-

			each case on anhydrous basis					
E636	MALTOL	taste and flavor enhancer	99.0% calculated on anhydrous basis	-	1	-	-	-
E637	ETHYL MAL	taste and flavor enhancer	99.0% calculated on anhydrous basis	-	1	-	-	-
E640	GLYCINE AND ITS SODIUM SALT	taste and flavor enhancer, carrying agent	98.5% on anhydrous basis	3	5	1	-	-
E650	ZINC ACETATE	taste and flavor enhancer	at least 98% and not over 102% of C <sub>4</sub> H <sub>6</sub> O <sub>4</sub> Zn · 2H <sub>2</sub> O	3	20	-	5	-
E900	POLYDIMETHYLSILOXANE	defoaming agent, emulsifying agent, free-flowing agent	The total silicic content at least 37.3% and not over 38.5%	3	5	1	-	-
E901	BEESWAX, WHITE AND YELLOW	glazing agent, carrying agent		3	5	1	-	-
E902	CANDELILLA WAX	glazing agent		3	5	1	-	-
E903	CARNAUBA WAX	glazing agent		3	5	1	-	-
E904	SHELLAC	glazing agent		-	2	-	-	-
E905	MICROCRYSTALLINE WAX	glazing agent	Molecular weight, at least 500; Viscosity under 1,000C, at least 1.1 mm <sup>2</sup> /sec	3	3			Benz(a)pyrene content not over 50 mg/kg; Sulphur content not over 0.4 mass %
E907	HYDROGENATED POLY-1DECENE	glazing agent	At least 98.5% of hydrogenized poly-1decene having the following distribution of oligomers: C <sub>30</sub> : 13-37%	-	1	-	-	-
E912	MONTANIC ACID ESTERS	glazing agent		2	2	-	-	-
E914	OXIDIZED POLYETHYLENE WAX	glazing agent		-	2	-	-	-
E920	CYSTEINE, L-, AND ITS HYDROCHLORIDE S- SODIUM AND POTASSIUM SALTS	flour processing substance	at least 98.0% and not over 101.5% on anhydrous basis	1.5	5	-	-	-
E927b	CARBAMIDE (UREA)	flour processing substance, taste and flavor enhancer	99.0% on anhydrous basis	3	5	-	-	-
E928	BENZOYL PEROXIDE	flour processing substance, conserving	96%	-	2	-	-	-

		agent						
E938	ARGON	propellant, packaging gas	99%	-	-	-	-	-
E939	GELLIUM	propellant, packaging gas	99%	-	-	-	-	-
E941	NITROGEN	propellant, packaging gas	99%	-	-	-	-	-
E942	NITROUS OXIDE	propellant, packaging gas	99%	-	-	-	-	-
E943a	BUTANE	propellant, packaging gas	96%	-	-	-	-	-
E943b	ISOBUTANE	propellant, packaging gas	94%	-	-	-	-	-
E944	PROPANE	propellant, packaging gas	95%	-	-	-	-	-
E948	OXYGEN	propellant, packaging gas	99%	-	-	-	-	-
E949	HYDROGEN	propellant, packaging gas	99.9%	-	-	-	-	-
E950	ACESULFAME POTASSIUM	sweetening agent	At least 99.0% and not over 101.0% on dry basis	-	1	-	-	-
E951	ASPARTAME	sweetening agent, taste and flavor enhancer	At least 98% and not over 102% on dry basis	-	1	-	-	-
E952	CYCLAMIC ACID and Na, Ca salts	sweetening agent	Cyclamic acid content at least 98% and not over 102% in terms of anhydrous C <sub>6</sub> H <sub>13</sub> NO <sub>3</sub> S	3	1			The content, % (in terms of dry weight) of Cyclohexylamine not over 10 mg/kg; dicyclohexylamine not over 1 mg/kg; Aniline, not over 1 mg/kg
	952(ii) CALCIUM CYCLAMATE		At least 98.0% and not over 101.0% on anhydrous basis	-	1	-	-	-
	952(iv) SODIUM CYCLAMATE		At least 98.0% and not over 101.0% on dry basis	-	1	-	-	-
E953	ISOMALT, ISOMALTITOL	sweetening agent, free-flowing agent, filling agent, carrying agent, glazing agent	At least 98% of hydrogenated mono-and disaccharides and at least 86% of mixtures of 6-O-alpha-D- glucopyranosyl-D-sorbitol and 1-O-alpha-D- glucopyranosyl-D-mannitol on anhydrous basis	-	1	-	-	-
E954	SACCHARIN and Na, K, Ca salts	sweetening agent						
	954(i) SACCHARIN		At least 99% and not over 101.0% on dry basis	-	1	-	-	-
	954(ii) CALCIUM SACCHARIN		99% after drying	-	1	-	-	-

	954(iii) POTASSIUM SACCHARIN		At least 99% and not over 101% on dry basis	-	1	-	-	-
	954(iv) SODIUM SACCHARIN		At least 99% and not over 101% on dry basis	-	1	-	-	-
E955	SUCRALOSE (TRICHLOROGALACTOSUCROSE)	sweetening agent	At least 98% and not over 102% in terms of the anhydrous basis	-	1	-	-	-
E957	THAUMATIN	sweetening agent, taste and flavor enhancer	At least 15.1% of Nitrogen on dry basis, equivalent to at least 93% of a protein (N x 6.2)	-	3	-	-	-
				Microbiological parameters:				
				The total number of aerobic microorganisms CFU/g, maximum	Coliforms, in 1 g			
				1000	Not allowed			
E959	NEOHESPERIDINE DIHYDROCHALCONE	sweetening agent	Neohesperidin content in terms of dry weight, at least 96%	3	2			
E960	STEVIOL GLYCOSIDES	sweetening agent	Steviol glycosides content, at least 95% (steviosides, rebaudiosides A, B, C, D, E and F, steviol biosides, rubusosides, dulcosides (in terms of dry weight)).	1	1			Residual quantities of solvents, maximum: Methanol – 200 mg/kg Ethanol – 1 g/kg
E961	NEOTAME	sweetening agent	97.0% on dry basis	-	1	-	-	-
E962	SALT OF ASPARTAMEACESULFAME	sweetening agent	63.0% to 66.0% of aspartame (on dry basis) and 34.0% to 37.0% of acesulfame (acid form on dry basis).	-	1	-	-	-
E965	MALTITOL AND MALTITOL SYRUP	sweetening agent, stabilizing agent, emulsifying agent, carrying agent						
	965(i) MALTITOL		98.0%	-	1	-	-	-
	965(ii) MALTITOL SYRUP		At least 99.0% of the total number of hydrogenated saccharides on anhydrous basis and at least 50.0% of maltitol on anhydrous basis	-	1	-	-	-
E966	LACTITOL	sweetening agent, carrying agent	At least 95.0% and not over 102.0% on anhydrous basis	-	1	-	-	-



E967	XYLITOL	sweetening agent, water-retaining agent, stabilizing agent, emulsifying agent	At least 98.5% and not over 101.0% on anhydrous basis	-	1	-	-	-
E968	ERYTHRITOL	sweetening agent, water-retaining agent, stabilizing agent	Erythritol content at least 99% (in terms of dry weight).		1			
E999	QUILLAIA EXTRACTS	foaming agent		2	5	1	-	-
E1200	POLYDEXTROSES	stabilizing agent, thickening agent, water-retaining agent, carrying agent	90% of a polymer on an ash-free and anhydrous basis	-	0.5	-	-	-
E1201	POLYVINYLPIRROLIDONE	thickening agent, stabilizing agent, carrying agent	At least 11.5% and not over 12.8% of Nitrogen (N) on anhydrous basis	-	5	-	-	-
E1202	POLYVINYLPOLYPYRROLIDONE	color fixative, stabilizing agent, carrying agent	At least 11% and not over 12.8% nitrogen (N) on anhydrous basis	-	5	-	-	-
E1203	POLYVINYL ALCOHOL	water-retaining agent, glazing agent		-	2	-	-	-
E1204	PULLULAN	glazing agent, thickening agent	90% of glucan on dry basis	-	1	-	-	-
				Microbiological parameters:				
				CGB (coliforms), in 25 g	salmonellae, in 25 g	Yeast, moulds CFU/g, maximum		
				Not allowed	Not allowed	100		
				Toxic elements, mg/kg, maximum				
				arsenic	lead	mercury	cadmium	total heavy metals (in terms of lead)
E1400	DEXTRINS, ROASTED STARCH WHITE AND	stabilizing agent, thickening agent		-	2	-	-	-

	YELLOW						
E1401	ACID-TREATED STARCH	stabilizing agent, thickening agent	-	2	-	-	-
E1402	ALKALINE TREATED STARCH	stabilizing agent, thickening agent	-	2	-	-	-
E1403	BLEACHED STARCH	stabilizing agent, thickening agent	-	2	-	-	-
E1404	OXIDIZED STARCH	emulsifying agent, thickening agent, carrying agent	1	2	0.1	-	-
E1405	STARCHES ENZYMETREATED	thickening agent	-	2	-	-	-
E1410	MONOSTARCH PHOSPHATE	stabilizing agent, thickening agent, carrying agent	1	2	0.1	-	-
E1412	DISTARCH PHOSPHATE ESTERIFIED WITH SODIUM TRIMETASPHOSPHATE; ESTERIFIED WITH PHOSPHORUS OXYCHLORIDE	stabilizing agent, thickening agent, carrying agent	1	2	0.1	-	-
E1413	PHOSPHATED DISTARCH PHOSPHATE	stabilizing agent, thickening agent, carrying agent	1	2	0.1	-	-
E1414	ACETYLATED DISTARCH PHOSPHATE	emulsifying agent, thickening agent, carrying agent	1	-	-	-	-
E1420	STARCH ACETATE ESTERIFIED WITH ACETIC ANHYDRIDE	stabilizing agent, thickening agent	1	2	0.1	-	-
E1422	ACETYLATED DISTARCH ADIPATE	stabilizing agent, thickening agent, carrying agent	1	2	0.1	-	-
E1440	HYDROXYPROPYL STARCH	emulsifying agent, thickening agent, carrying agent	1	2	0.1	-	-
E1442	HYDROXYPROPYL DISTARCH PHOSPHATE	stabilizing agent, thickening agent, carrying agent	1	2	0.1	-	-
E1450	STARCH SODIUM OCTENYL SUCCINATE	stabilizing agent, thickening agent, emulsifying agent, carrying agent	1	2	0.1	-	-
E1451	ACETILATED OXYDISED STARCH	emulsifying agent, thickening agent	1	2	0.1	-	-
E1452	STARCH ALUMINIUM	stabilizing agent, glazing agent	1	2	0.1	-	-

	OCTENYL SUCCINATE							
E1503	CASTOR OIL	glazing agent, free-flowing agent, filling agent	99.00%	3	5	-	-	-
E1505	TRIETHYL CITRATE	foaming agent, carrying agent	Triethyl citrate content, at least 99%	3	2			
E1517	DIACETIN (GLYCERYL DIACETAT)	water-retaining agent, carrying agent	94.00%	3	5	-	-	-
E1518	TRIACETIN	water-retaining agent, carrying agent	98.00%	3	5	-	-	-
E1519	BENZYL ALCOHOL	carrying agent	98.00%	-	5	-	-	-
E1520	PROPYLENE GLYCOL	water-retaining agent, carrying agent	99.5% on anhydrous basis	-	5	-	-	-
E1521	POLYETHYLENE GLYCOL	glazing agent, stabilizing agent, carrying agent		-	1	-	-	-
-	Dihydroquercetin	antioxidant						
-	Quercetin	antioxidant						
-	RED RICE	coloring agent						
-	Licorice root (Glycyrrhiza sp.) extract	stabilizing agent, foaming agent						
-	Soap root (Acanthophyllum sp.) extract	stabilizing agent, foaming agent						
-	Stevia (Stevia rebaudiana Bertoni), leaves powder and syrup therefrom	sweetening agent						
-	Sodium, potassium and calcium succinates	acidity regulators						
-	Chitosan, chitosonium hydrochloride	filling agent, thickening agent, stabilizing agent						

**Annex 29**  
to the Technical Regulation  
“Safety Requirements for Food Additives,  
Flavorings and Technological Aids”  
(TR TS 029/2012)

Hygienic Standards for Use of Food Additives in Food Products for Child Nutrition for Children  
of Early Age

Table 1

Food Additives for Production of Human Milk Substitutes for Healthy Children of the First Year  
of Age<sup>1</sup>

Food additive (index E)	The maximum level in a ready-prepared product
Acids, acidity regulators <sup>2</sup>	
Citric acid (E330), potassium citrate (E332), sodium citrate (E331) – separate or combined in terms of the acid	2 g/l
L(+)-Lactic acid (E270) <sup>3</sup>	in accordance with TD
Phosphoric acid (E338), potassium phosphate (E340), sodium phosphate (E339) – separate or combined as added phosphates in terms of P <sub>2</sub> O <sub>5</sub>	1 g/l
Antioxidants	
L-Ascorbyl palmitate (E304)	10 mg/l
Tocopherol concentrate (E306), alpha-tocopherol (E307), gamma-tocopherol (E308), delta-tocopherol (E309) – separate or combined	10 mg/l
Emulsifying agents <sup>4</sup>	
Lecithins (E322)	1 g/l
Mono- and diglycerides of fatty acids (E471)	4 g/l
Citric acid and mono- and diglycerides esters of fatty acids (E472c): for powder-like mixtures for liquid mixtures containing partially hydrolyzed proteins, peptides or amino acids	7.5 g/l 9 g/l
Sucrose esters of fatty acids (E473) for products containing hydrolyzed proteins, peptides or amino acids	120 mg/l
Other food additives	
Guar gum (E412) for products containing hydrolyzed proteins	1 g/l
Nitrogen (E941) Argon (E938)	in accordance with TD

Gellium (939) Carbon dioxide (E290)	
Flavorings – natural fruits extracts	in accordance with TD

Note:

<sup>1</sup> – Food additives are allowed as part of another product upon production of products of child nutrition. The content of gym arabica (E414) in such products must not exceed 150 g/kg, amorphous silicon dioxide (E551) – 10 g/kg. Mannitol (E421) is allowed in products of child nutrition as part of vitamin B12 upon the use thereof as a carrying agent, vitamin B12 content must not exceed 1 g/kg of mannitol. Sodium ascorbate (E301) is allowed as part of coatings of polyunsaturated fatty acids preparations. The intake from other products must not exceed the following limits: for gym arabica (E414) – 10 mg/kg, for sodium ascorbate (E301) – 75 mg/kg of a ready-prepared product.

The intake of starch sodium octenyl succinate (E1450) is allowed as part of vitamin and polyunsaturated fatty acids preparations, the content of which must not exceed: as for the vitamin preparations – 100 mg/kg of a ready-prepared product, as for the polyunsaturated fatty acids preparations – 1 g/kg of a ready-prepared product.

<sup>2</sup> – Upon the use of food additives – potassium (E332) and sodium citrates (E331) and potassium (E340) and sodium phosphates (E339) producing physiologically active ions of mineral substances, in production of child milk products based on cow milk proteins the total quantity of such mineral substances in terms of 100 kcal of the end (under the instruction) product must constitute the following: sodium – 20-60 mg, potassium – 60-145 mg, phosphor – 2590 mg.

<sup>3</sup> – L(+)- lactic acid (E270) produced from non-pathogenic and non-toxic strains of microorganisms may be used for production of cultured milk products.

<sup>4</sup> – If more than one of the following substances is added to a product: lecithins (E322), mono- and diglycerides of fatty acids (E471), citric acid and mono- and diglycerides esters of fatty acids (E472c) and sucrose esters of fatty acids (E473), the maximum levels established therefor in products must be proportionally decreased, i.e. the total mass (expressed in per cents of the maximum levels of separate emulsifying agents) must constitute not over 100 per cent.

Table 2

Food Additives for Production of Subsequent Mixtures for Healthy Children Older than Five Months of Age<sup>1</sup>

Index Food additive (E)	The maximum level in a ready-prepared product
Acids, acidity regulators <sup>2</sup>	
Citric acid (E330), potassium citrate (E332), sodium citrate (E331) – separate or combined in terms of the acid	2 g/l
L(+)-Lactic acid (E270) <sup>3</sup>	In accordance with TD
Phosphoric acid (E338), potassium phosphate (E340), sodium phosphate (E339) – separate or combined as added phosphates in terms of P <sub>2</sub> O <sub>5</sub>	1 g/l
Antioxidants	
L-Ascorbyl palmitate (E304)	10 mg/l
Tocopherol concentrate (E306), alpha-tocopherol (E307), gamma-tocopherol (E308), delta-tocopherol (E309) – separate or combined	10 mg/l
Emulsifying agents <sup>4</sup>	
Lecithins (E322)	1 g/l
Mono- and diglycerides of fatty acids (E471)	4 g/l
Citric acid and mono- and diglycerides esters of fatty acids (E472c): for powder-like mixtures for liquid mixtures containing partially hydrolyzed proteins, peptides or amino acids	7.5 g/l 9 g/l
Sucrose esters of fatty acids (E473) for products containing hydrolyzed proteins, peptides or amino acids	120 mg/l
Stabilizing agents <sup>5</sup>	
Guar gum (E412)	1 g/l
Carob bean gum (E410)	1 g/l
Carrageenan (E407)	0.3 g/l
Pectins (E440) for sour extra nutrition products	5 g/l
Flavorings	
Natural flavorings	in accordance with TD
Ethyl vanillin for products based on grain and fruit <sup>6</sup>	50 mg/kg
Vanilla extract For products based on grain and fruit	in accordance with TD
Nitrogen (E941) Argon (E938)	in accordance with TD

Gellium (939) Carbon dioxide (E290)	
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Note:

<sup>1</sup> – Food additives are allowed as part of another product upon production of products of child nutrition. The content of gym arabica (E414) in such products must not exceed 150 g/kg, amorphous silicon dioxide (E551) – 10 g/kg. Mannitol (E421) is allowed in products of child nutrition as part of vitamin B12 upon the use thereof as a carrying agent, vitamin B12 content must not exceed 1 g/kg of mannitol. Sodium ascorbate (E301) is allowed as part of coatings of polyunsaturated fatty acids preparations. The intake from other products must not exceed the following limits: for gym arabica (E414) – 10 mg/kg, for sodium ascorbate (E301) – 75 mg/kg of a ready-prepared product.

The intake of starch sodium octenyl succinate (E1450) is allowed as part of vitamin and polyunsaturated fatty acids preparations, the content of which must not exceed: as for the vitamin preparations – 100 mg/kg of a ready-prepared product, as for the polyunsaturated fatty acids preparations – 1 g/kg of a ready-prepared product.

<sup>2</sup> – Upon the use of food additives – potassium (E332) and sodium citrates (E331) and potassium (E340) and sodium phosphates (E339) producing physiologically active ions of mineral substances, in production of child milk products based on cow milk proteins the total quantity of such mineral substances in terms of 100 kcal of the end (under the instruction) product must comprise the following: sodium – 20-60 mg, potassium – 60-145 mg, phosphor – 2590 mg.

<sup>3</sup> – L(+)- lactic acid (E270) produced from non-pathogenic and non-toxic strains of microorganisms may be used for production of cultured milk products.

<sup>4</sup> – If more than one of the following substances is added to a product: lecithins (E322), mono- and diglycerides of fatty acids (E471), citric acid and mono- and diglycerides esters of fatty acids (E472c) and sucrose esters of fatty acids (E473), the maximum levels established therefor in products must be proportionally decreased, i.e. the total weight (expressed in per cents of the maximum levels of separate emulsifying agents) must constitute not over 100 per cent.

<sup>5</sup> – If more than one of the following substances is added to a product: carrageenan (E407), carob bean gum (E410) and guar gum (E412), the maximum levels established in products therefor must be proportionally decreased, i.e. the total mass (expressed in per cents from the maximum levels of separate stabilizing agents) must constitute not over 100 per cents.

<sup>6</sup> – Allowed to be used for children older than 4 months of age.

Table 3

Food Additives for Production of Extra Nutrition Products for Healthy Children of the First Year of Age and for Nutrition of Children from One to Three Years of Age<sup>1</sup>

<b>Food additive</b>	<b>Products</b>	<b>The maximum level in ready-prepared products</b>
Potassium hydroxide (E525), calcium hydroxide (E526), sodium hydroxide (E524) – only for pH regulation	Extra nutrition products	in accordance with TD
L-Cysteine and its salts – sodium and potassium hydrochlorides (E920)	Dry biscuits	1 g/kg
Ammonium carbonates (E503), potassium carbonates (E501), sodium carbonates (E500) – only as a leavening agent (for dough)	Extra nutrition products	in accordance with TD
Calcium carbonate (E170) – only for pH regulation	Extra nutrition products	in accordance with TD
Citric acid (E330), potassium citrates (E332), calcium citrates (E333), sodium citrates (E331) – separate or combined, only for pH regulation	Extra nutrition products	in accordance with TD
	Fruit-based products with reduced sugar content (only E333)	in accordance with TD
Lactic acid (E270), potassium lactate (E326), calcium lactate (E327), sodium lactate (E325) – separate or combined, only for pH regulation <sup>2,3</sup>	Extra nutrition products	in accordance with TD
Hydrochloric acid (E507)	Extra nutrition products	in accordance with TD
Acetic acid (E260), potassium acetate (E261), calcium acetates (E263), sodium acetate (E262) – separate or combined, only for pH regulation	Extra nutrition products	in accordance with TD
Malic acid (E296) – only for pH regulation <sup>2</sup>	Extra nutrition products	In accordance with TD
o-Phosphoric acid (E338) – added phosphate in terms of P <sub>2</sub> O <sub>5</sub> , only for pH regulation	Extra nutrition products	1 g/kg
Potassium phosphates (E340), calcium phosphates (E341), sodium phosphates (E339) – separate or combined, as added phosphate in terms of P <sub>2</sub> O <sub>5</sub>	Grain-based products;	1 g/kg
	Fruit-based desserts (only E341iii)	1 g/kg
Twice-substituted sodium pyrophosphate (E450i)	Sponge cakes and dry bread crumbs	500 mg/kg residual quantity



L-ascorbic acid (E300), L-calcium ascorbate (E302), L-sodium ascorbate (E301),	Horticultural products, except for juice fruit products and (or) vegetables	300 mg/kg
L-potassium ascorbate (E303) – separate or combined in terms of ascorbic acid	Products containing fat, products based on grains, including sponge cakes and dry bread crumbs	200 mg/kg
L-Ascorbyl palmitate (E304), tocopherol concentrate (E306), alpha-tocopherol (E307), gamma-tocopherol (E308), delta-tocopherol (E309) – separate or combined	Products containing fat, products out of grains, sponge cakes, dry bread crumbs	100 mg/kg
Lecithins (E322)	Sponge cakes and dry bread crumbs; products based on grains	10 g/kg
Mono- and diglycerides of fatty acids (E471), citric and fatty acid esters of glycerol (E472c), lactic and fatty acid esters of glycerol (472b) vinegar and fatty acid esters of glycerol (E472a) – separate or combined	Sponge cakes and dry bread crumbs; products based on grains	5 g/kg
Alginic acid (E400), potassium alginate (E402), calcium alginate (E404) sodium alginate (E401) – separate or combined	Desserts, puddings	500 mg/kg
Guar gum (E412), gym arabic (E414) carob bean gum (E410) Xantan gum (E415) pectins (E440) – separate or combined	Extra nutrition products	10 g/kg
	Gluten-free products based on grains	20 g/kg
Silicon dioxide amorphous (E551)	Dry grain products	2 g/kg
Tartaric acid (E334), potassium tartrate (E336), calcium tartrate (E354), sodium tartrate (E335) – separate or combined <sup>2</sup>	Sponge cakes and dry bread crumbs	500 mg/kg residual quantity
Glucono delta-lactone (E575)	Sponge cakes and dry bread crumbs	500 mg/kg residual quantity
Modified starches: acetylated distarch adipate (E1422), acetylated distarch phosphate (E1414), acetylated starch (E1420), acetylated oxydised starch (E1451), distarch phosphate (E1412), monostarch phosphate (E1410), oxidized starch (E 1404), distarch phosphate phosphated (E1413), starch sodium octenyl succinate (E1450) –	Extra nutrition products	50 g/kg

separate or combined		
Nitrogen (E941) Argon (E938) Gellium (939) Carbon dioxide (E290)	Extra nutrition products	in accordance with TD

Note:

<sup>1</sup> – Food additives are allowed as part of another product upon production of products of child nutrition. The content of gym arabica (E414) in such products must not exceed 150 g/kg, amorphous silicon dioxide (E551) – 10 g/kg. Mannitol (E421) is allowed in products of child nutrition as part of vitamin B12 upon the use thereof as a carrying agent, vitamin B12 content must not exceed 1 g/kg of mannitol. Sodium ascorbate (E301) is allowed as part of coatings of polyunsaturated fatty acids preparations. The intake from other products must not exceed the following limits: for gym arabica (E414) – 10 mg/kg, for sodium ascorbate (E301) – 75 mg/kg of a ready-prepared product.

The intake of starch sodium octenyl succinate (E1450) is allowed as part of vitamin and polyunsaturated fatty acids preparations, the content of which must not exceed: as for the vitamin preparations – 100 mg/kg of a ready-prepared product, as for the polyunsaturated fatty acids preparations – 1 g/kg of a ready-prepared product.

<sup>2</sup> – For manufacturing of extra nutrition products only L(+)- forms of lactic (E270), tartaric (E334), malic (E296) acids and salts thereof may be used.

<sup>3</sup> – For manufacturing of cultured milk products L(+)- lactic acid (E270) produced from non-pathogenic and non-toxic strains of microorganisms may be used.

Table 4

Food Additives for Production of Specialized Dietetic Products for Children Less Than Three Years of Age<sup>1, 2</sup>

Food additive	Products	The maximum level in ready-prepared products
Sodium alginate (E401)	Special products of adjusted composition, necessary upon metabolic disorder and tube feeding, for children over 4 months of age	1 g/l
Citric and fatty acid esters of glycerol (E472c)	Powder-like dietetic products for children from birth	7.5 g/l
	Liquid dietetic products for children from birth	9 g/l
Guar gum (E412)	Products and liquid mixtures containing hydrolyzed proteins, peptides or amino acids, for children from birth	10 g/l
Carob bean gum (E410)	Products for reduction of gastroesophageal reflux, designated for children from birth	10 g/l
Sodium carboxymethyl cellulose (E466)	Products for dietetic correction of metabolic disorders for children from birth	10 g/l
Starch octenyl succinate (E1450)	Child mixtures	20 g/l
Xantan gum (E415)	Products based on peptides from or amino acids to be used for patients with affected gastrointestinal tract, protein malabsorption, for dietetic correction of metabolic disorders affecting children from birth	1.2 g/l
Mono- and diglycerides of fatty acids (E471)	Products with deliberately reduced protein content for children from birth	5 g/l
Pectins (E440)	Products applied in the events of gastrointestinal disorders	10 g/l
Propylene glycolalginat (E405)	Special products designated for children older than 12 months of age with cow milk protein intolerance and for dietetic correction of congenital metabolic disorders	200 mg/l
Sucrose esters of fatty acids (E473)	Products containing protein hydrolyzates, peptides and amino acids	120 mg/l
Nitrogen (E941) Argon (E938) Gellium (939) Carbon dioxide (E290)	Dietetic products	in accordance with TD

Note:

<sup>1</sup> – Food additives are allowed as part of another product upon production of products of child nutrition. The content of gym arabica (E414) in such products must not exceed 150 g/kg, amorphous silicon dioxide (E551) – 10 g/kg. Mannitol (E421) is allowed in products of child nutrition as part of vitamin B12 upon the use thereof as a carrying agent, vitamin B12 content must not exceed 1 g/kg of mannitol. Sodium ascorbate (E301) is allowed as part of coatings of polyunsaturated fatty acids preparations. The intake from other products must not exceed the following limits: for gym arabica – 10 mg/kg, for sodium ascorbate – 75 mg/kg of a ready-prepared product (section 4.4).

The intake of starch sodium octenyl succinate (E1450) is allowed as part of vitamin and polyunsaturated fatty acids preparations, the content of which must not exceed: as for the vitamin preparations – 100 mg/kg of a ready-prepared product, as for the polyunsaturated fatty acids preparations – 1 g/kg of a ready-prepared product.

<sup>2</sup> – Upon manufacturing of special dietetic products for children less than three years of age food additives specified in tables 1, 2 and 3 of this Annex may be used, as well.

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BEGIN UNOFFICIAL TRANSLATION:

Approved  
by Decision of the Collegium  
of the Eurasian Economic Commission  
No. 258 of October 2, 2012

**List of standards, voluntary application of which ensures compliance with the requirements of the Technical regulation of the Customs Union “Safety Requirements for Food Additives, Flavorings and Technological Aids” (TR TS 029/2012)**

No.	Elements of the Technical Regulation of the Customs Union	Identification of Standard. Information on Amendments	Name of Standard	Note
1	2	3	4	5
1	Article 7	GOST 490-2006	Lactic acid for use in foodstuffs. Specifications	
2	Article 7	GOST 908-2004	Citric acid monohydrate for use in foodstuffs. Specifications	
3	Article 7	GOST 6034-74	Dextrins. Specifications	
4	Article 7	GOST 7699-78	Potato starch. Specifications	
5	Article 7	GOST 11293-89	Gelatin. Specifications	
6	Article 7	GOST 16280-2002	Food grade agar. Specifications	
7	Article 7	GOST 16599-71	Vanillin. Specifications	
8	Article 7	GOST 21205-83	Tartaric acid for use in foodstuffs. Specifications	
9	Article 7	GOST 29186-91	Pectin. Specifications	
10	Article 7	GOST 31227-2004	Food 5,5-aqueous tri-sodium citrate. Specifications	
11	Article 7	STB 1760-2007	Nutritive vinegars. General specifications	
12	Article 7	STB 1828-2008	Food cooking rock salt. Specification	
12	Article 7	STB 1924-2008	Vinegar for use in food (appendix A)	
14	Article 7	GOST R 51985-2002	Maize starch. General specifications	
15	Article 7	GOST R 52101-2003	Vinegars of food raw material. General specifications	
16	Article 7	GOST R 52177-2003	Food flavourings. General specifications	
17	Article 7	GOST R 52672-2006	Hydrolysates of starch. Specifications	
18	Article 7	GOST R 52823-2007	Food additives. Sodium phosphates E339. General specifications	
19	Article 7	GOST R 52824-2007	Food additives. Sodium and potassium triphosphates E451. Specifications	
20	Article 7	GOST R 53039-2008	Food additives. Food potassium lactate E326. Specifications	
21	Article 7	GOST R 53040-2008	Food additives. Anhydrous citric acid E330. Specifications	
22	Article 7	GOST R 53069-2008	Food additives. Potassium phosphates E340. General specifications	
23	Article 7	GOST R 53083-2008	Food additives. Sodium polyphosphate E452(i). Specifications	
24	Article 7	GOST R 53119-2010	Food additives. Sodium lactate E325. Specifications	
25	Article 7	GOST R 53667-2009	Casein. Specifications	
26	Article 7	GOST R 53876-2010	Potato starch. General specifications	
27	Article 7	GOST R 53943-2010	Food additives. Calcium lactate E327. Specifications	
28	Article 7	GOST R 53945-2010	Food additives. Calcium phosphates E341. General specifications	
29	Article 7	GOST R 53968-2010	Food additives. Potassium acetate E261(i). Specifications	
30	Article 7	GOST R 53970-2010	Food additives. Lecithines E322. General specifications	
31	Article 7	ST RK GOST R 53039-2010	Food additives. Food potassium lactate E326. Specifications	
32	Article 7	ST RK GOST R 53040-2010	Food additives. Anhydrous citric acid E330. Specifications	
33	Article 7	ST RK GOST R 53119-2010	Food additives. Sodium lactate E325. Specifications	

END UNOFFICIAL TRANSLATION.

BEGIN UNOFFICIAL TRANSLATION:

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No. 258 of October 2, 2012

**List of Standards containing the rules and methods of examination (testing) and measurement, including the rules for selection of samples required for application and meeting of the requirements of the Technical regulation of the Customs Union “Safety Requirements for Food Additives, Flavorings and Technological Aids” (TR TS 029/2012) and carrying out of assessment (confirmation) of products’ conformity.**

No.	Elements of the Technical Regulation of the Customs Union	Identification of Standard. Information on Amendments	Name of Standard	Note
1	2	3	4	5
1	Article 5	GOST R ISO 22005-2009	Traceability in the feed and food chain. General principles and basic requirements for system design and implementation	
2	Article 7	GOST 6687.3-87	Aerated soft drinks and fermented bread beverages. Method of determination of carbon dioxide	
3	Article 7	GOST 8558.2-78	Meat products. Method for determination of nitrate	
4	Article 7	GOST 9794-74	Meat products. Methods for the determination of total phosphorus contents	
5	Article 7	GOST 10444.12-88	Food products. Method for determination of yeast and mould	
6	Article 7	GOST 10444.15-94	Food products. Methods for determination quantity of mesophilic aerobes and facultative anaerobes	
7	Article 7	GOST 11254-85	Rendered animal and animal feeding meal. Methods for determining antioxidants	
8	Article 7	GOST 13195-73	Wines, wine materials, cognacs and cognac spirits. Fruit and berry juices this alcohol. Method for determination of iron	
9	Article 7	GOST 15113.0-77	Food concentrates. Rules of acceptance, sampling and preparation of samples	
10	Article 7	GOST 23268.2-91	Drinking medicinal, medicinal-table and natural-table mineral waters. Methods for determination of carbon dioxide	
11	Article 7	GOST 24556-89	Products of fruits and vegetables processing. Methods for determination of vitamin C	
12	Article 7	GOST 25268-82	Confectionary. Methods for determination of xylite and sorbite content	
13	Article 7	GOST 25555.5-91	Fruit and vegetable products. Methods for determination of sulphur dioxide	
14	Article 7	GOST 26181-84	Fruit and vegetable products. Methods for determination of sorbic acid	
15	Article 7	GOST 26668-85	Food-stuff and food additives. Preparation of sampling for microbiological analyses	
16	Article 7	GOST 26669-85	Food-stuffs and food additives. Preparation of samples for microbiological analyses	
17	Article 7	GOST 26670-91	Food products. Methods for cultivation of microorganisms	
18	Article 7	GOST 26811-86	Confectionary. Method for determination of mass percentage of total sulphurous acid	
19	Article 7	GOST 26889-86	Food-stuffs and food additives. General directions for the determinations of nitrogen content by the Kjeldahl method	
20	Article 7	GOST 26927-86	Raw material and food-stuffs. Methods for determination of	

			mercury	
21	Article 7	GOST 26928-86	Food-stuffs. Method for determination of iron	
22	Article 7	GOST 26929-94	Raw material and food-stuffs. Preparation of samples. Decomposition of organic matters for analysis of toxic elements	
23	Article 7	GOST 26930-86	Raw material and food-stuff. Method for determination of arsenic	
24	Article 7	GOST 26931-86	Raw materials and food-stuffs. Method for determination of copper	
25	Article 7	GOST 26932-86	Raw materials and food-stuffs. Methods for determination of lead	
26	Article 7	GOST 26933-86	Raw materials and food-stuffs. Methods for determination of cadmium	
27	Article 7	GOST 26934-86	Raw materials and food-stuffs. Method for determination of zinc	
28	Article 7	GOST 26935-86	Canned food stuffs. Method for determination of tin	
29	Article 7	GOST 27001-86	Caviar and preserves from fish and sea products. Methods for determination of preservatives	
30	Article 7	GOST 28038-89	Fruit and vegetable products. Methods for determination of mycotoxin patulin	
31	Article 7	GOST 28467-90	Products of fruits and vegetables processing. Method for determination of benzoic acid content	
32	Article 7	GOST 28561-90	Fruit and vegetable products. Methods for determination of total solids or moisture	
33	Article 7	GOST 28562-90	Fruit and vegetable products. Refractometric method for determination of soluble dry substances content	
34	Article 7	GOST 29185-91	Food products. Methods for detection and quantity determination of sulphite-reducing clostridium	
35	Article 7	GOST 30059-93	Non-alcoholic drinks. Methods for determination of aspartame, saccharin, caffeine and sodium benzoate	
36	Article 7	GOST 30145-94	Essential oils and products of essential oil production. Acceptance rules, sampling and methods of organoleptic tests	
37	Article 7	GOST 30178-96	Raw material and food-stuffs. Atomic absorption method for determination of toxic elements	
38	Article 7	GOST 30305.2-95	Sweetened condensed preserved and dry milk products. Procedure of measurement of saccharose content	
39	Article 7	GOST 30518-97	Food products. Methods for detection and quantity determination of coliformes	
40	Article 7	GOST 30519-97	Food products. Method for detection of Salmonella	
41	Article 7	GOST 30538-97	Food-stuffs. Analysis of toxic elements by atomic-emission method	
42	Article 7	GOST 30615-99	Stuff and food products. Method of determination of phosphorus	
43	Article 7	GOST 30627.2-98	Infant milk products. Methods for determination of mass part of vitamin C (Acidum ascorbinum)	
44	Article 7	GOST 30669-2000	Products of fruits and vegetables processing. Gas chromatographic method for determination of benzoic acid content	
45	Article 7	GOST 30670-2000	Products of fruits and vegetables processing. Gas chromatographic method for determination of sorbic acid	
46	Article 7	GOST 30711-2001	Food-stuffs. Methods for detection and determination of aflatoxins B1 and M1 content	
47	Article 7	GOST 30726-2001	Food-stuffs. Methods for detection and determination of Escherichia coli	

48	Article 7	GOST 31266-2004	Raw material and food-stuffs. Atomic absorption for determination of arsenic	
49	Article 7	GOST 29299-92 (ISO 2918-75)	Meat and meat products. Determination of nitrite content	
50	Article 7	GOST 29300-92	Meat and meat products. Determination of nitrate content	
51	Article 7	GOST ISO 21569-2009	Foodstuffs - Methods of analysis for the detection of genetically modified organisms and derived products - Qualitative nucleic acid based methods	
52	Article 7	GOST ISO 21570-2009	Foodstuffs - Methods of analysis for the detection of genetically modified organisms and derived products - Quantitative nucleic acid based methods	
53	Article 7	GOST ISO 21571-2009	Foodstuffs — Methods of analysis for the detection of genetically modified organisms and derived products — Nucleic acid extraction	
54	Article 7	GOST ISO 21572-2009	Foodstuffs - Methods for the detection of genetically modified organisms and derived products - Protein based methods	
55	Article 7	GOST R 51197-98 (ISO 4133-79)	Meat and meat products. Method for determination of glucono-delta-lactone content	
56	Article 7	GOST R 51198-98 (ISO 4134-78)	Meat and meat products. Method for determination of L-(+)-glytamic acid content	
57	Article 7	STB ISO 7218-2010	Microbiology of foods and animal feed. General requirements and guide for microbiological research	
58	Article 7	GOST R ISO 7218-2008	Microbiology of foods and animal feed. General requirements and guide for microbiological research	
59	Article 7	ST RK GOST R ISO 7218-2010	Microbiology of foods and animal feed. General requirements and guide for microbiological research	
60	Article 7	GOST R 53162-2008 (ISO 16060:2003)	Foodstuffs. Determination of aflatoxin B1, and the total content of aflatoxin B1, B2, G1 and G2 in cereals, nuts and derived products. High-performance liquid chromatographic method	
61	Article 7	GOST R 53244-2008 (ISO 21570:2005)	Foodstuffs. Methods of analysis for the detection of genetically modified organisms and derived products. Quantitative nucleic acid based methods	
62	Article 7	GOST R 53214-2008 (ISO 24276:2006)	Foodstuffs. Methods of analysis for the detection of genetically modified organisms and derived products. General requirements and definitions	
63	Article 7	ST RK ISO 24276-2010	Foodstuffs. Methods of analysis for the detection of genetically modified organisms and derived products. General requirements and definitions	
64	Article 7	GOST R EN 12856-2010	Foodstuffs. Determination of acesulfame K, aspartame and saccharin. High performance liquid chromatographic method	
65	Article 7	GOST R 53150-2008 (EN 13805:2002)	Foodstuffs. Determination of trace elements. Pressure digestion	
66	Article 7	GOST R 53183-2008 (EN 13806:2002)	Foodstuffs. Determination of trace elements. Determination of mercury by cold-vapor atomic absorption spectrometry (CVAAS) after pressure digestion	
67	Article 7	GOST R EN 14130-2010	Foodstuffs. Determination of vitamin C by HPLC	
68	Article 7	GOST R 53182-2008 (EN 14627:2005)	Foodstuffs. Determination of trace elements. Determination of total arsenic and selenium by hydride generation atomic absorption spectrometry (HGAAS) after pressure digestion	
69	Article 7	GOST R 51239-98 (DIN 1138-94)	Fruit and vegetable juices. Determination of L-malic acid content	
70	Article 7	STB 1036-97	Food and agricultural products. Methods of selection of samples for determination of safety indexes	



71	Article 7	STB 1313-2002	Raw material and food products. Methods of definition contents of toxic elements zinc, cadmium, lead and copper by stripping voltammetric analysis on analyzers type TA	
72	Article 7	STB 1315-2002	Products tinned. Methods of definition contents of tin and lead by stripping voltammetric analysis on analyzers of a type TA	
73	Article 7	STB 1907-2008	Brandy spirits, brandies, wines, crude wine, liqueurs and bitters. Method of definition contents of carbohydrate and glycerin using high-performance liquid chromatography	
74	Article 7	STB GOST R 51428-2006	Fruit juices. Method for determination of tartaric acid content using high performance liquid chromatography	
75	Article 7	STB GOST R 51650-2001	Food stuffs. Methods for determination of benz(a)pyren fraction of total mass	
76	Article 7	GOST R 50206-92	Animal and vegetable fats and oils. Determination of butylhydroxyanisol (BHA) and butylhydroxytoluene (BHT). Gas-liquid chromatographic method	
77	Article 7	GOST R 50476-93	Fruit and vegetable products. Method for determination of sorbic and benzoic acids, simultaneously contained in the product	
78	Article 7	GOST R 51129-98	Fruit and vegetable juices. Determination of citric acid (citrate)	
79	Article 7	GOST R 51153-98	Aerated soft drinks and fermented bread beverages. Method for determination of carbon dioxide	
80	Article 7	GOST R 51257-99	Processed cheeses. Method for determination of citric acid content	
81	Article 7	GOST R 51301-99	Food-stuffs and food raw materials. Anodic stripping voltammetric methods of toxic traces elements determination (cadmium, lead, copper and zinc)	
82	Article 7	GOST R 51428-99	Fruit juices. Method for determination of tartaric acid content using high performance liquid chromatography	
83	Article 7	GOST R 51461-99	Processed cheese products. Calculation of the content of added citrate emulsifying agents and acidifiers/pH-controlling agents, expressed as citric acid	
84	Article 7	GOST R 51650-2000	Food stuffs. Methods for determination of benz(a)pyren fraction of total mass	
85	Article 7	GOST R 51766-01	Raw material and food-stuffs. Atomic absorption method for determination of arsenic	
86	Article 7	GOST R 51962-2002	Food-stuffs and food raw materials. Anodic stripping voltammetric method of arsenic concentration determination	
87	Article 7	GOST R 52173-2003	Raw and food-stuffs. Method for the identification of genetically modified organisms (GMO) of plant origin	
88	Article 7	GOST R 52174-2003	Biological safety. Raw and food-stuffs. Method for the identification of genetically modified organisms (GMO) of plant origin by using biological microchip	
89	Article 7	GOST R 52470-2005	Food products. Methods for identification and determination of artificial colours in alcoholic production	
90	Article 7	GOST R 52671-2006	Food products. Methods for identification and determination of artificial colours in caramel	
91	Article 7	GOST R 52689-2006	Foods. Anodic stripping voltammetric method of iodine mass concentration determination	
92	Article 7	GOST R 52690-2006	Foods. Voltammetric method of vitamin C mass concentration determination	
93	Article 7	GOST R 52723-2007	Foodstuffs and feeds. Rapid method of identification of raw composition (molecular)	
94	Article 7	GOST R 52814-2007	Food products. Method for the detection of Salmonella	

95	Article 7	GOST R 52816-2007	Food products. Methods for detection and quantity determination of coliformes	
96	Article 7	GOST R 52823-2007	Food additives. Sodium phosphates E339. General specifications	
97	Article 7	GOST R 52824-2007	Food additives. Sodium and potassium triphosphates E451. Specifications	
98	Article 7	GOST R 52825-2007	Food products. Method for determination of artificial colours in spices presence	
99	Article 7	GOST R 53039-2008	Food additives. Food potassium lactate E326. Specifications	
100	Article 7	GOST R 53040-2008	Food additives. Anhydrous citric acid E330. Specifications	
101	Article 7	GOST R 53069-2008	Food additives. Potassium phosphates E340. General specifications	
102	Article 7	GOST R 53083-2008	Food additives. Sodium polyphosphate E452(i). Specifications	
103	Article 7	GOST R 53119-2008	Food additives. Sodium lactate E325. Specifications	
104	Article 7	GOST R 53152-2008	Food products. Determination of PAHs by HPLC method	
105	Article 7	GOST R 53193-2010	Alcoholic and non-alcoholic drinks and beverages. Determination of caffeine, ascorbic acid and its salts, preservatives and sweeteners using capillary electrophoresis method	
106	Article 7	GOST R 53752-2009	Milk and milk products. Determination of preservatives and synthetic colors content by high performance liquid chromatography method	
107	Article 7	GOST R 53753-2009	Milk and milk products. Method for determination of stabilizations using gas chromatography	
108	Article 7	GOST R 53943-2010	Food additives. Calcium lactate E327. Specifications	
109	Article 7	GOST R 53945-2010	Food additives. Calcium phosphates E341. General specifications	
110	Article 7	GOST R 53968-2010	Food additives. Potassium acetate E261(i). Specifications	
111	Article 7	GOST R 53970-2010	Food additives. Lecithines E322. General specifications	
112	Article 7	GOST R 54068-2010	Canned fruits. Method for determination of synthetic colours erythrosine and phloxine B presence	
113	Article 7	ST RK 1345-2005	Biological safety. Raw and food-stuffs. Method for the identification of genetically modified organisms (GMO) of plant origin by using biological microchip	
114	Article 7	ST RK 1346-2005	Biological safety. Raw and food-stuffs. Method for the identification of genetically modified organisms (GMO) of plant origin	
115	Article 7	ST RK GOST R 51301-2005	Food-stuffs and food raw materials. Anodic stripping voltammetric methods of toxic traces elements determination (cadmium, lead, copper and zinc)	
116	Article 7	ST RK GOST R 51921-2010	Food products. Methods for detection and determination of Listeria monocytogenes bacteria	
117	Article 7	ST RK GOST R 51962-2005	Food-stuffs and food raw materials. Anodic stripping voltammetric method of arsenic concentration determination	
118	Article 7	ST RK GOST R 52723-2010	Foodstuffs and feeds. Rapid method of identification of raw composition (molecular)	
119	Article 7	ST RK GOST R 53039-2010	Food additives. Food potassium lactate E326. Specifications	
120	Article 7	ST RK GOST R 53040-2010	Food additives. Anhydrous citric acid E330. Specifications	
121	Article 7	ST RK GOST R 53119-2010	Food additives. Sodium lactate E325. Specifications	

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