

Аминокислоты и производные

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: sbu@nt-rt.ru || сайт: <https://scharlab.nt-rt.ru>



4-Hydroxy-L-proline, EssentQ®

- Synonyms: L(-)-4-Hydroxypyrrolidine-2-carboxylic acid
- C5H9NO3
- M = 131,13 g/mol
- CAS [51-35-4]
- EINECS-No.: 200-091-9
- Solub. in water: (20 °C): 500 g/l
- Melting point: 274 °C
- Tariff number: 2933 99 90 90
- Applications: synthesis of organic products, laboratory reagent.

SPECIFICATIONS

assay (titr. with HClO4) : min. 99 %
identity (IR-spectrum): passes test

chlorides (Cl): max. 0,02 %
sulfates (SO4): max. 0,02 %
ammonium (NH4): max. 0,02 %
heavy metals (as Pb): max 0,001 %
iron (Fe): max 0,001 %
other aminoacids: max. 0 5 %
residue on ignition: max. 0,1 %
loss on drying (105 °C, 3 h): max. 0,2 %



b-Alanine, EssentQ®

- Synonyms: 3-Aminopropanoic acid, Ala
- C3H7NO2
 - M = 89,09 g/mol
 - CAS [107-95-9]
 - EINECS-No.: 203-536-5
 - Solub. in water: (20 °C): 545 g/l
 - Melting point: 200 °C (decomposes)
 - Tariff number: 2922 49 20 00
 - Applications: in biochemistry.

SPECIFICATIONS

dried sample) : min. 98,5 %
identity (IR-spectrum): passes test:
heavy metals (as Pb): max. 0,001 %



DL-Alanine, EssentQ®

- Synonyms: 2-Aminopropionic acid, Ala
- $C_3H_7NO_2$
- $M = 89,09 \text{ g/mol}$
- CAS [302-72-7]
- EINECS-No.: 206-126-4
- Solub. in water: (25 °C): 167 g/l
- Melting point: 264 - 296 °C (decomposes)
- Tariff number: 2922 49 95 90
- Applications: in biochemistry, in food industry.

SPECIFICATIONS

assay (titration with $HClO_4$): min. 99 %
identity (IR-spectrum): passes test
insoluble in water: max. 0,05 %
chlorides (Cl): max. 0,01 %
sulfates (SO_4): max. 0,01 %
ammonium (NH_4): max. 0,02 %
arsenic (As): max. 1,5 ppm
copper (Cu): max. 0,001 %
heavy metals (as Pb): max. 0,001 %
iron (Fe): max. 0,001 %
lead (Pb): max. 0,001 %
nickel (Ni): max. 0,001 %
related substances (TLC): passes test
residue on ignition: max 0,1 %
loss on drying (105 °C): max. 0,5 %



Glycine, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Aminoacetic acid, Glycocoll
- $C_2H_5NO_2$
- $M = 75,07 \text{ g/mol}$
- CAS [56-40-6]
- EINECS-No.: 200-272-2
- Solub. in water: (20 °C): 225 g/l
- Melting point: 232 - 236 °C (decomposes)
- LD 50 (oral, rat): 7930 mg/kg
- Tariff number: 2922 49 85 00
- Applications: analytical chemistry, in buffer solutions (for electrophoresis), for pharmaceutical use, in food industry.

SPECIFICATIONS

assay (titration with $HClO_4$): min. 99,7 %
identity (IR-spectrum): passes test
insoluble in water: max. 0,003 %
pH (5 %, H_2O): 5,9 - 6,3
chlorides (Cl): max. 0,003 %
sulfates (SO_4): max. 0,0025 %

ammonium (NH₄): max. 0,005 %
copper (Cu): max. 1 ppm
heavy metals (as Pb): max. 0,001 %
iron (Fe): max. 1 ppm
lead (Pb): max. 1 ppm
hydrolyzable substances: passes test
other ninhydrin positive substances (as glycine): max. 0,1 %
other aminoacids: max. 0,1 %
substances darkened by H₂SO₄: passes test
residue on ignition (600 °C): max. 0,05 %
water (K.F.): max. 0,1 %



L-Arginine monohydrochloride, Pharmpur®, Ph Eur, BP, USP

- Synonyms: a-Amino-d-guanidino valerianic acid hydrochloride
- C₆H₁₄N₄O₂·HCl
- M = 210,86 g/mol
- CAS [1119-34-2]
- EINECS-No.: 214-275-1
- Solub. in water: (20 °C): 730 g/l
- Melting point: 218 - 220 °C (decomposes)
- LD 50 (oral, rat): 12000 mg/kg
- Tariff number: 2925 29 00 90
- Applications: synthesis of organic products, for pharmaceutical use, in biochemistry, in food industry, in pharma industry.

SPECIFICATIONS

dried sample) : 98,5 - 101,0 %
chloride content: 16,5 - 17,1 %
identification: passes test
appearance of solution: passes test

250g/l on dried substance): + 21,0 ° - + 23,5 °
specific rotation ([α]₂₀^D, c = 8, HCl 6N): + 21,4 ° - + 23,6 °
sulfates (SO₄): max. 300 ppm
ammonium (NH₄): max. 0,02 %
iron (Fe): max. 10 ppm
ninhydrin-positive substances: max. 0,5 %
residue on ignition: max. 0,1 %
loss on drying (105 °C): max. 0,2 %



L-Arginine, Pharmpur®, Ph Eur, BP, USP

- Synonyms: 2-Amino-5-guanidinovaleric acid
- C₆H₁₄N₄O₂
- M = 174,20 g/mol
- CAS [74-79-3]
- EINECS-No.: 200-811-1
- Solub. in water: (20 °C): 148,7 g/l
- Melting point: 216 - 218 °C (decomposes)
- LD 50 (oral, rat): > 5110 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319

- GHS-P sentences: P280 - P264 - P305+P351+P338 - P337+P313
- Tariff number: 2925 29 00 90
- Applications: for pharmaceutical use, in food industry, in pharma industry.

SPECIFICATIONS

assay (titr. with HClO_4 , referred to dried sample): 98,5 - 101,5 %
assay (acidimetric, referred to dried sample): 98,5 - 101,0 %
Identification IR: passes test
Identification TLC: passes test
identification B (EP): passes test
Identification E (EP): passes test
appearance of solution: passes test
specific rotation ($[\alpha]_{25}^{\circ}/D$; $c=8$, HCl 6N): + 26,3 ° - + 27,7 °
specific rotation ($[\alpha]_{20}^{\circ}/D$, $c = 8$, HCl 250g/l on dried substance): + 25,5 ° - + 28,5 °
chlorides (Cl): max. 200 ppm
sulfates (SO_4): max. 300 ppm
ammonium (NH_4): max. 0,02 %
iron (Fe): max. 10 ppm

individual: max. 0,2 %
total: max. 0,5 %

individual: max. 0,5 %
total: max. 2,0 %
residue on ignition: max. 0,1 %
loss on drying (105 °C): max. 0,5 %



L-Asparagine monohydrate, Pharmpur®, Ph Eur, BP

- Synonyms: Asparaginic acid semiamide
- $\text{C}_4\text{H}_8\text{N}_2\text{O}_3 \cdot \text{H}_2\text{O}$
- $M = 150,14 \text{ g/mol}$
- CAS [5794-13-8]
- EINECS-No.: 200-735-9
- Solub. in water: (20 °C): 22 g/l
- Melting point: 215 - 217 °C (decomposes)
- Tariff number: 2924 19 00 90
- Applications: in biochemistry, for pharmaceutical use, in food industry, synthesis of organic products, in pharma industry.

SPECIFICATIONS

assay (titration with HClO_4 , on dried sample) : 99,0 - 101,0 %
identity (IR-spectrum): passes test
Identification TLC: passes test
appearance of solution (2 %, H_2O): clear and colourless
specific rotation ($20^{\circ}/D$, $c=10$, HCl 10%) : + 33,7 ° - + 36,0 °
pH (2 %, H_2O): 4,0 - 6,0
chlorides (Cl): max. 200 ppm
sulfates (SO_4): max. 200 ppm
ammonium (NH_4): max. 0,1 %
iron (Fe): max. 10 ppm
residue on ignition: max. 0,1 %
loss on drying (60 °C, 24 h) : 10,5 - 12,5 %

aspartic acid: max. 0,5 %
2,2'-[(2,5'-3,6-dioxopiperazine-2,5-diyl)diacetamide: max. 0,1 %
any unspecified impurities: max. 0,05 %
total : max. 0,8 %



L-Aspartic acid, Pharmpur®, Ph Eur, BP, USP

- Synonyms: L-a-Aminosuccinic acid
- $C_4H_7NO_4$
- $M = 133,10 \text{ g/mol}$
- CAS [56-84-8]
- EINECS-No.: 200-291-6
- Solub. in water: (20 °C): 4 g/l
- Melting point: 269 - 271 °C
- LD 50 (oral, rat): > 5110 mg/kg
- Tariff number: 2922 49 95 90
- Applications: for pharmaceutical use, synthesis of organic products, in food industry, in pharma industry.

SPECIFICATIONS

assay (acidimetric, on dried sample): 98,5 - 101,5 %

identity (IR-spectrum): passes test

identification B (EP): passes test

Identification D (EP): passes test

Identification TLC: passes test

appearance of solution: passes test

specific rotation ($[\alpha]_{20}^{D}$, $c = 8$, HCl 250g/l on dried substance): + 24,0 ° - + 26,0 °

chlorides (Cl): max. 200 ppm

sulfates (SO_4): max. 300 ppm

ammonium (NH_4): max. 0,02 %

iron (Fe): max. 10 ppm

malic acid: max. 0,20 %

fumaric acid: max. 0,10 %

maleic acid: max. 0,05 %

any unspecified impurities: max. 0,05 %

total unspecified impurities: max. 0,1 %

total: max. 0,3 %

ninhydrin-positive substances:

glutamic acid: max. 0,2 %

alanine: max. 0,2 %

asparagine: max. 0,2 %

any ninhydrin-positive substances: max. 0,10 %

total: max. 1,0 %

D-aspartic acid: max. 0,3 %

residue on ignition: max. 0,1 %

loss on drying (105 °C, 3 h): max. 0,5 %



L-Cysteine hydrochloride anhydrous, EssentQ®

- Synonyms: Thioserine
- $C_3H_7NO_2S \cdot HCl$
- $M = 157,62 \text{ g/mol}$
- CAS [52-89-1]
- EINECS-No.: 200-157-7
- Solub. in water: (20 °C): soluble
- Melting point: 175 - 178 °C (decomposes)
- Tariff number: 2930 90 16 00
- Applications: in biochemistry, in food industry, antioxidant.

SPECIFICATIONS

assay (argentometric): min. 98 %
identity (IR-spectrum): passes test
specific rotation. ($[\alpha]_{20^\circ/D}$, $c=1$, 0,1N HCl): $+ 5.6^\circ - + 8.9^\circ$
phosphates (as PO_4): max. 0,005 %
sulfates (SO_4): max. 0,005 %
ammonium (NH_4): max. 0,01 %
arsenic (As): max. 0,0005 %
heavy metals (as Pb): max. 0,001 %
iron (Fe): max. 0,001 %
residue on ignition: max. 0,1 %
loss on drying (vacuum on P_2O_5): max. 2 %



L-Glutamic acid, Pharmpur®, Ph Eur, BP

- Synonyms: L-a-Aminoglutaric acid, (S)-2-Aminopentanedioic acid
- $C_5H_9NO_4$
- $M = 147,13 \text{ g/mol}$
- CAS [56-86-0]
- EINECS-No.: 200-293-7
- Solub. in water: ($25^\circ C$): $\sim 11,1 \text{ g/l}$
- Melting point: $160^\circ C$
- LD 50 (oral, rat): $> 30000 \text{ mg/kg}$
- Tariff number: 2922 42 00 90
- Applications: in biochemistry, in food industry, in pharma industry.

SPECIFICATIONS

assay (acidimetric, referred to dried sample): 98,5 - 100,5 %

Identification IR: passes test

Identification C (EP): passes test

Identification D (EP): passes test

appearance of solution: clear and colourless

chlorides (Cl): max. 200 ppm

sulfates (SO_4): max. 300 ppm

ammonium (NH_4): max. 200 ppm

iron (Fe): max. 10 ppm

ninhydrin-positive substances: passes test

residue on ignition: max. 0,1 %

loss on drying ($105^\circ C$): max. 0,5 %



L-Glutamine, Pharmpur®, USP

- Synonyms: L-Glutamic acid-5-amide
- $C_5H_{10}N_2O_3$
- $M = 146,15 \text{ g/mol}$
- CAS [56-85-9]
- EINECS-No.: 200-292-1
- Solub. in water: ($18^\circ C$): 26 g/l
- Melting point: $185 - 186^\circ C$
- LD 50 (oral, rat): 7500 mg/kg
- Tariff number: 2924 19 00 90
- Applications: in biochemistry, analytical chemistry, for pharmaceutical use, synthesis of organic products, in pharma industry.

SPECIFICATIONS

assay (titration with $HClO_4$, referred to dried sample): 98,5 - 101,5 %

identity (IR-spectrum): passes test
specific rotation ($[\alpha]_{20}^{\circ}$ /D, c = 4, H₂O): + 6,3 ° - + 7,3 °
chlorides (Cl): max. 0,05 %
sulfates (SO₄): max. 0,03 %
iron (Fe): max. 30 ppm
residue on ignition (as SO₄): max. 0,3 %
loss on drying (105 °C, 3 h): max. 0,3 %
related substances (TLC): max. 0,5 %



L-Histidine hydrochloride monohydrate, Pharmpur®, Ph Eur, BP

- Synonyms: (S)-a-Amino-1H-imidazole-4-propanoic acid
- C₆H₉N₃O₂·HCl·H₂O
- M = 209,63 g/mol
- CAS [5934-29-2]
- EINECS-No.: 211-438-9
- Solub. in water: (20 °C): 169,9 g/l
- Melting point: 259 °C (decomposes)
- Tariff number: 2933 29 90 90
- Applications: in biochemistry, for pharmaceutical use, in pharma industry.

SPECIFICATIONS

dried sample) : 98,5 - 101,0 %
identity (IR-spectrum): passes test
Identification TLC: passes test
Identification E (EP): passes test
Identification chloride: passes test
appearance of solution: passes test
specific rotation ($[\alpha]_{20}^{\circ}$ /D, c = 11, HCl 6 mol/l): + 9,2 ° - + 10,6 °
pH (5 %, H₂O): 3,0 - 5,0
sulfates (SO₄): max. 300 ppm
ammonium (NH₄): max. 200 ppm
iron (Fe): max. 10 ppm

any ninhydrin-positive substances: max. 0,2 %
total: max. 0,25 %
residue on ignition: max. 0,1 %
loss on drying (150 °C) : 7 - 10 %



L-Histidine, Pharmpur®, Ph Eur, BP, USP

- Synonyms: L-3-Imidazol-4-alanine
- C₆H₉N₃O₂
- M = 155,16 g/mol
- CAS [71-00-1]
- EINECS-No.: 200-745-3
- Solub. in water: (20 °C): 38,2 g/l
- Melting point: 272 - 273 °C (decomposes)
- LD 50 (oral, rat): > 5110 mg/kg
- Tariff number: 2933 29 90 90
- Applications: in biochemistry, for pharmaceutical use, in food industry, in pharma industry.

SPECIFICATIONS

assay EP (acidimetric) : 98,5 - 101,0
assay USP (acidimetric, on dried sample): 98,5 - 101,5
Identification IR: passes test
Identification TLC: passes test
Identification D (EP): passes test
appearance of solution: passes test
specific rotation (EP; 25°C/D) (dried substance) : + 11,4° to + 12,4°
specific rotation (USP; 25°C/D) : + 12,6° to + 14,0°
pH : 7,0 - 8,5 :
ammonium (NH₄): passes test
chlorides (Cl): max. 200 ppm
iron (Fe): max. 10 ppm
sulfates (SO₄): max. 300 ppm

individual impurity : max. 0,5 %
total impurities: max. 2,0 %
ninhydrin-positive substances:
each : max. 0,2 %
total : max. 0,5 %
loss on drying (105 °C): max. 0,2 %
residue on ignition: max. 0,1 %



L-Isoleucine, Pharmpur®, Ph Eur, BP, USP

Amino acids are basic components of proteins, and their derivatives are compounds obtained from their modifications. Amino acids and their derivatives are used in protein synthesis, peptide chemistry and chemical synthesis, among other applications.



L-Leucine, Pharmpur®, Ph Eur, BP, USP

Amino acids are basic components of proteins, and their derivatives are compounds obtained from their modifications. Amino acids and their derivatives are used in protein synthesis, peptide chemistry and chemical synthesis, among other applications.



L-Lysine monohydrochloride, EssentQ®

Amino acids are basic components of proteins, and their derivatives are compounds obtained from their modifications. Amino acids and their derivatives are used in protein synthesis, peptide chemistry and chemical synthesis, among other applications.



L-Phenylalanine, Pharmpur®, Ph Eur, BP, USP

Amino acids are basic components of proteins, and their derivatives are compounds obtained from their modifications. Amino acids and their derivatives are used in protein synthesis, peptide chemistry and chemical synthesis, among other applications.



L-Proline, Pharmpur®, Ph Eur, BP, USP

Amino acids are basic components of proteins, and their derivatives are compounds obtained from their modifications. Amino acids and their derivatives are used in protein synthesis, peptide chemistry and chemical synthesis, among other applications.



L-Tryptophan, Pharmpur®, Ph Eur, BP, USP

Amino acids are basic components of proteins, and their derivatives are compounds obtained from their modifications. Amino acids and their derivatives are used in protein synthesis, peptide chemistry and chemical synthesis, among other applications.



Sodium L-glutamate monohydrate, Pharmpur®, NF

- $C_5H_8NNaO_4 \cdot H_2O$
- $M = 187,13 \text{ g/mol}$
- CAS [6106-04-3]
- EINECS-No.: 205-538-1
- Solub. in water: (20 °C): ~ 600 g/l
- Melting point: 225 - 240 °C
- Flash pt. > 900 °C
- LD 50 (oral, rat): 15800 mg/kg
- Tariff number: 2922 42 00 10
- Applications: in food industry (E 621).

SPECIFICATIONS

assay (titration with $HClO_4$): 99,0 - 100,5 %

Identification IR: passes test

Identification sodium: passes test

clarity and colour of solution: passes test

pH (5 %, H_2O , 25 °C): 6,7 - 7,2

specific rotation ($[\alpha]_{20}^D$, $c = 10$, HCl 2 mol/l, on dried sample) : + 24,8 ° - + 25,3 °

chlorides (Cl): max. 0,25 %

lead (Pb): max. 10 ppm

loss on drying (5h; 100°C): max. 0,5 %

Volume

x 1 kg

Reference

[SO04001000](#)

Packaging

x 1 kg :: Plastic bottle

Presentation

Sodium glutamate (Additive). 500g

Type of packaging
vacuum wrapped flask

Reference

[SO04000500](#)

Packaging

x 500 g :: Plastic bottle

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: sbu@nt-rt.ru || сайт: <https://scharlab.nt-rt.ru>