

АМИНОКИСЛОТЫ

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Калуга (4842)92-23-67
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Киров (8332)68-02-04
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Краснодар (861)203-40-90
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Курск (4712)77-13-04
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Магнитогорск (3519)55-03-13
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Мурманск (8152)59-64-93
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Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
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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

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Рязань (4912)46-61-64
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Санкт-Петербург (812)309-46-40
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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
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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
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L-Arginine Hydrochloride (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1700

CAS

1119-34-2

MOLECULAR FORMULA

$C_6H_{14}N_4O_2 \cdot HCl$

MOLAR MASS

210.66 g/mol

Packs sizes (2)



CODE

PACKAGING SIZE

CODE
A1700,1000

PACKAGING SIZE
1 kg



CODE
A1700,9015

PACKAGING SIZE
15 kg

Technical data

SOLUBILITY: 900 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1700

PRODUCT NAME: L-Arginine Hydrochloride (Ph. Eur., USP) pure,
pharma grade

HEADLINE COMMENT:

- All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS:

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

α 20°C/D; 8 %, 6 M HCl: +21.4° - +23.6°

Appearance of solution: passes test

Identity: passes test

Heavy metals (as Pb): max. 0.002 %

Sulfated ash: max. 0.1 %

Loss on drying (2 h; 105°C): max. 0.2 %

α 20°C/D; 8 %, 250 g/L HCl, calc. on dried subst.:
+21.0° - +23.5°

Ammonium: max. 0.02 %

Chloride: 16.5 - 17.1 %

Sulfate: max. 0.03 %

Fe: max. 0.001 %

Ninhydrin positive substances (HPLC)

each individual impurity: max. 0.2 %

Total impurities: max. 0.5 %

Ninhydrin positive substances (TLC)

Each individual impurity: max. 0.5 %

Total impurities: max. 2 %

Elemental impurities (according to ICH Q3D):

Class 1 (Cd): max. 0.5 ppm

Class 2B (Au): max. 10 ppm

Class 2B (Rh): max. 10 ppm

Class 2A (Co): max. 5 ppm

Class 3 (Li): max. 55 ppm

Class 1 (Pb): max. 0.5 ppm

Class 1 (As): max. 1.5 ppm

Class 1 (Hg): max. 1.5 ppm

Class 2A (V): max. 10 ppm

Class 2A (Ni): max. 20 ppm

Class 2B (Tl): max. 0.8 ppm

Class 2B (Pd): max. 10 ppm

Class 2B (Ir): max. 10 ppm

Class 2B (Os): max. 10 ppm

Class 2B (Ru): max. 10 ppm

Class 2B (Pt): max. 10 ppm

Class 2B (Se): max. 15 ppm

Class 2B (Ag): max. 15 ppm

Class 3 (Sb): max. 120 ppm

Class 3 (Ba): max. 140 ppm

Class 3 (Mo): max. 25 ppm

Class 3 (Cr): max. 25 ppm
Class 3 (Cu): max. 250 ppm
Class 3 (Sn): max. 600 ppm

WGK: 1

STORAGE: RT

EINECS: 214-275-1

CS: 29224985

L-Arginine Hydrochloride *BioChemica*

Assay (titr.): min. 99 %

CODE

A3709

CAS

1119-34-2

MOLECULAR FORMULA

$C_6H_{14}N_4O_2 \cdot HCl$

MOLAR MASS

210.66 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE
A3709,1000

PACKAGING SIZE
1 kg

Technical data

SOLUBILITY: 900 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A3709

PRODUCT NAME: L-Arginine Hydrochloride *BioChemica*

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr.): min. 99 %
 $\alpha_{20^\circ C/D}$; 8 %, 6 M HCl: +21.4° - +23.5°
Heavy metals (as Pb): max. 0.001 %
Ammonia: max. 0.1 %

Other amino acids: max. 0.5 %

Sulfate: max. 0.02 %

A (1 cm/0.1 M in H₂O)

260 nm: max. 0.2

280 nm: max. 0.1

WGK:

1

STORAGE:

RT

EINECS:

214-275-1

CS:

29224985

L-Alanine (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1688

CAS

56-41-7

MOLECULAR FORMULA

CH₃CH(NH₂)COOH

MOLAR MASS

89.09 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE

PACKAGING SIZE

A1688,0100

100 g

① Technical data

SOLUBILITY: 166.5 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1688

PRODUCT NAME: L-Alanine (Ph. Eur., USP) pure, pharma grade

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr., calc. on dried subst.): 98.5 - 101.0 %
α_{25°C/D}; 10 %, 6 M HCl: +13.7° - +15.1°

Appearance of solution: passes test
Heavy metals (as Pb): max. 0.0015 %
Sulfated ash: max. 0.1 %
Loss on drying (3 h; 105°C): max. 0.2 %
Identity: passes test
 $\alpha_{20^{\circ}\text{C/D}}; 10 \%, \text{HCl } 250 \text{ g/L, calc. on dried subst.:}$
 $+13.5^{\circ} - +15.5^{\circ}$
pH (5 %; H₂O; 25°C): 5.5 - 7.0
Ammonium: max. 0.02 %
Chloride: max. 0.02 %
Sulfate: max. 0.03 %
Fe: max. 0.001 %
Ninhydrin positive substances (HPLC)
Any ninhydrin-pos. Subst.: max. 0.1 %
Total impurities: max. 0.5 %
Ninhydrin positive substances (TLC)
Each individual impurity: max. 0.5 %
Total impurities: max. 2 %

WGK:	1
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STORAGE:	RT
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EINECS:	200-273-8
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CS:	29224985
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L-Arginine base (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1345

CAS

74-79-3

MOLECULAR FORMULA

C₆H₁₄N₄O₂

MOLAR MASS

174.20 g/mol

Packs sizes (3)



CODE

PACKAGING SIZE

CODE
A1345,0500

PACKAGING SIZE
500 g



CODE
A1345,1000

PACKAGING SIZE
1 kg



CODE
A1345,9010

PACKAGING SIZE
10 kg

① Technical data

SOLUBILITY: 150 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE:	A1345
PRODUCT NAME:	L-Arginine base (Ph. Eur., USP) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.5 - 101.0 % α25°C/D; 8 %, 6 M HCl: +26.3° - +27.7° Appearance of solution: passes test Identity: passes test Heavy metals (as Pb): max. 0.0015 % Sulfated ash: max. 0.1 % Loss on drying (3 h; 105°C): max. 0.5 % α20°C/D; 8 %, HCl 250 g/L, calc. on dried subst.: +25.5° - +28.5° Ammonium: max. 0.02 % Chloride: max. 0.02 % Sulfate: max. 0.03 % Fe: max. 0.001 % Ninhydrin positive substances (HPLC) Each individual impurity: max. 0.2 % Total impurities: max. 0.5 % Ninhydrin positive substances (TLC) Each individual impurity: max. 0.5 % Total impurities: max. 2.0 %

HAZARD PICTOGRAMS



WGK:	1
STORAGE:	RT
SIGNAL WORD:	Attention
GHS SYMBOLS:	GHS07
H PHRASES:	H319
P PHRASES:	P264

P280
P305+P351+P338
P337+P313

EINECS: 200-811-1

CS: 29224985

Glycine for molecular biology

Assay (titr.): min. 99.5 %

CODE

A1067

CAS

56-40-6

MOLECULAR FORMULA

H₂NCH₂COOH

MOLAR MASS

75.07 g/mol

Packs sizes (2)



CODE

PACKAGING SIZE

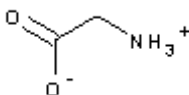
CODE
A1067,1000

PACKAGING SIZE
1 kg



CODE
A1067,5000

PACKAGING SIZE
5 kg



① Technical data

SOLUBILITY: 225 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE:	A1067
PRODUCT NAME:	Glycine for molecular biology
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	DNases/RNases/Proteases: not detectable Assay (titr.): min. 99.5 % pH (5 %; H ₂ O): 5.9 - 6.4 Loss on drying: max. 0.1 % Heavy metals (as Pb): max. 0.001 % Other amino acids: max. 0.1 % Ammonium: max. 0.02 % Chloride: max. 0.004 % Sulfate: max. 0.005 % Fe: max. 0.0005 %

WGK:	1
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STORAGE:	RT
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EINECS:	200-272-2
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CS:	29224985
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L-Glutamine (DAB, USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 99.0 - 101.0 %

CODE	A1420
CAS	56-85-9
MOLECULAR FORMULA	$C_5H_{10}N_2O_3$
MOLAR MASS	146.15 g/mol

Packs sizes (3)



CODE

PACKAGING SIZE

CODE
A1420,0250

PACKAGING SIZE
250 g



CODE
A1420,1000

PACKAGING SIZE
1 kg



CODE
A1420,9025

PACKAGING SIZE
25 kg

① Technical data

SOLUBILITY: 100 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE:	A1420
PRODUCT NAME:	L-Glutamine (DAB, USP) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 99.0 - 101.0 % α 20°C/D; 10 %, 2 M HCl, calc. on dried subst.: +31.5° - +33.0° α 20°C/D; 4 %, H ₂ O: +6.3° - +7.3° Appearance of solution: passes test Identity: passes test pH (25 g/L; H ₂ O): 4.0 - 6.0 Sulfated ash: max. 0.1 % Loss on drying (3 h; 105°C): max. 0.3 % Ninhydrin positive substances: max. 0.5 % Ammonium: max. 0.1 % Chloride: max. 0.02 % Sulfate: max. 0.02 % Fe: max. 0.001 %

WGK:	1
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STORAGE:	RT
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EINECS:	200-292-1
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CS:	29241900
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L-Cysteine Hydrochloride 1-hydrate (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1702

CAS

7048-04-6

MOLECULAR FORMULA

$C_3H_7NO_2S \cdot HCl \cdot H_2O$

MOLAR MASS

175.64 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE

PACKAGING SIZE

A1702,1000

1 kg

① Technical data

SOLUBILITY: 650 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1702

PRODUCT NAME: L-Cysteine Hydrochloride 1-hydrate (Ph. Eur., USP)
pure, pharma grade

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

α 25°C/D; 8 %, 6 M HCl: +5.7° - +6.8°
Appearance of solution: passes test
Identity: passes test
Heavy metals (as Pb): max. 0.0015 %
Sulfated ash: max. 0.1 %
Loss on drying: 8.0 - 12.0 %
 α 20°C/D; 8 %, HCl 250 g/L, calc. on dried subst.:
+5.5° - +7.0°
Ammonium: max. 0.02 %
Sulfate: max. 0.03 %
Fe: max. 0.002 %
Ninhydrin positive substances (HPLC)
Any other ninhydrin-pos. Subst.: max. 0.2 %
Total impurities: max. 1.0 %
Cystine: max. 0.5 %
Ninhydrin positive substances (TLC)
Each individual impurity: max. 0.5 %
Total impurities: max. 2 %

HAZARD PICTOGRAMS



WGK:	1
STORAGE:	RT
SIGNAL WORD:	Attention
GHS SYMBOLS:	GHS07
H PHRASES:	H319
P PHRASES:	P264 P280 P305+P351+P338 P337+P313

EINECS:	200-157-7
CS:	29309016

L-Asparagine 1-hydrate (Ph. Eur.) pure, pharma grade

Assay (titr., dried subst.): 99.0 - 101.0 %

CODE

A1668

CAS

5794-13-8

MOLECULAR FORMULA

$C_4H_8N_2O_3 \cdot H_2O$

MOLAR MASS

150.14 g/mol

Packs sizes (3)



CODE

CODE
A1668,0100

PACKAGING SIZE

PACKAGING SIZE
100 g

Product active until stock lasts.



CODE
A1668,1000

PACKAGING SIZE
1 kg



CODE
A1668,9025

PACKAGING SIZE
25 kg

① Technical data

SOLUBILITY: 30 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE:	A1668
PRODUCT NAME:	L-Asparagine 1-hydrate (Ph. Eur.) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., dried subst.): 99.0 - 101.0 % α20°C/D; 10 %, 3 N HCl, dried subst.: +33.7° - +36.0° Appearance of solution: passes test Identity: passes test Sulfated ash: max. 0.1 % Loss on drying: 10.5 - 12.5 % pH (2 %; H₂O): 4.0 - 6.0 Ammonium: max. 0.1 % Chloride: max. 0.02 % Sulfate: max. 0.02 % Fe: max. 0.001 % Related subst. (HPLC) Impurity A: max. 0.5 % Impurity C: max. 0.1 % Each unspecified impurity: max. 0.05 % Total impurities: max. 0.8 % Elemental impurities (according to ICH Q3D): Class 1 (Cd): max. 0.5 ppm Class 2B (Au): max. 10 ppm Class 2B (Rh): max. 10 ppm Class 2A (Co): max. 5 ppm Class 3 (Li): max. 55 ppm Class 1 (Pb): max. 0.5 ppm Class 1 (As): max. 1.5 ppm Class 1 (Hg): max. 1.5 ppm Class 2A (V): max. 10 ppm Class 2A (Ni): max. 20 ppm Class 2B (Tl): max. 1 ppm Class 2B (Pd): max. 10 ppm Class 2B (Ir): max. 10 ppm Class 2B (Os): max. 10 ppm Class 2B (Ru): max. 10 ppm Class 2B (Pt): max. 10 ppm Class 2B (Se): max. 15 ppm Class 2B (Ag): max. 15 ppm

Class 3 (Sb): max. 120 ppm
Class 3 (Ba): max. 140 ppm
Class 3 (Mo): max. 25 ppm
Class 3 (Cr): max. 25 ppm
Class 3 (Cu): max. 250 ppm
Class 3 (Sn): max. 600 ppm

WGK: 1

STORAGE: RT

EINECS: 200-735-9

CS: 29241900

L-Asparagine 1-hydrate *BioChemica*

Assay (titr.): min. 99 %

CODE

A3721

CAS

5794-13-8

MOLECULAR FORMULA

$\text{C}_4\text{H}_8\text{N}_2\text{O}_3 \cdot \text{H}_2\text{O}$

MOLAR MASS

150.14 g/mol

Packs sizes (2)



CODE

PACKAGING SIZE

CODE
A3721,0100

PACKAGING SIZE
100 g



CODE
A3721,1000

PACKAGING SIZE
1 kg

Technical data

SOLUBILITY: 30 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A3721

PRODUCT NAME: L-Asparagine 1-hydrate *BioChemica*

HEADLINE COMMENT:

- All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS:

Assay (titr.): min. 99 %
 α 20°C/D; 10 %, 3 M HCl: +33.7° - +36°
Heavy metals (as Pb): max. 0.001 %
Other amino acids: max. 0.5 %
Ammonium: max. 0.1 %
Chloride: max. 0.02 %
Sulfate: max. 0.02 %
A (1 cm/0.1 M in HCl)
260 nm: max. 0.2
280 nm: max. 0.1

WGK:

1

STORAGE:

RT

EINECS:

200-735-9

CS:29241900

L-Asparagine anhydrous (USP-NF) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.0 - 101.5 %

CODE	147755
CAS	70-47-3
MOLECULAR FORMULA	$C_4H_8N_2O_3$
MOLAR MASS	132.12 g/mol

Packs sizes (1)



CODE	PACKAGING SIZE
CODE 147755.0914	PACKAGING SIZE 5 kg

① Technical data

PRODUCT CODE:	147755
PRODUCT NAME:	L-Asparagine anhydrous (USP-NF) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.0 - 101.5 % $\alpha_{20^{\circ}C/D}$; 1 %, 6 M HCl: +33.0° - +36.5° Colony count (yeasts & moulds): max. 100 CFU/g Total aerobic microbial count: max. 1000 CFU/g Identity: passes test Loss on drying (3 h; 130°C): max. 1.0 %

Residue on ignition: max. 0.1 %
Pb: max. 0.0005 %
Ninhydrin positive substances (TLC)
Each individual impurity: max. 0.5 %
Total impurities: max. 1.0 %

WGK:	1
STORAGE:	RT

EINECS:	200-735-9
CS:	29241900

L-Cysteine (DAB) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.0 - 101.0 %

CODE

A1425

CAS

52-90-4

MOLECULAR FORMULA

C₃H₇NO₂S

MOLAR MASS

121.16 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE
A1425,1000

PACKAGING SIZE
1 kg

Technical data

SOLUBILITY: 280 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1425

PRODUCT NAME: L-Cysteine (DAB) pure, pharma grade

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr., calc. on dried subst.): 98.0 - 101.0 %
α₂₀°C/D; 12 %, HCl, calc. on dried subst.: +8.0° - +9.5°
Appearance of solution: passes test

Identity: passes test
pH (2.5 %; H₂O): 4.5 - 6.0
Heavy metals (as Pb): max. 0.001 %
Sulfated ash: max. 0.1 %
Loss on drying: max. 0.5 %
Ninhydrin positive substances: max. 0.5 %
Ammonium: max. 0.02 %
Chloride: max. 0.04 %
Sulfate: max. 0.03 %
Fe: max. 0.002 %

WGK:	1
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STORAGE:	RT
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EINECS:	200-158-2
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CS:	29309013
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L-Cysteine *BioChemica*

Assay (titr.): min. 99 %

CODE

A3694

CAS

52-90-4

MOLECULAR FORMULA

C₃H₇NO₂S

MOLAR MASS

121.16 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE
A3694,0100

PACKAGING SIZE
100 g

Technical data

SOLUBILITY: 280 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A3694

PRODUCT NAME: L-Cysteine *BioChemica*

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr.): min. 99 %
α₂₀°C/D; 5 %, HCl: +8° - +9.5°
Heavy metals (as Pb): max. 0.001 %
Insoluble matter: passes test

Other amino acids: max. 0.5 %
Ammonium: max. 0.1 %
Chloride: max. 0.02 %
Sulfate: max. 0.02 %

WGK: 1

STORAGE: RT

EINECS: 200-158-2

CS: 29309013

L-Aspartic Acid (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.5 %

CODE

A1701

CAS

56-84-8

MOLECULAR FORMULA

C₄H₇NO₄

MOLAR MASS

133.10 g/mol

Packs sizes (3)



CODE

PACKAGING SIZE

CODE
A1701,9050

PACKAGING SIZE
50 kg



CODE
A1701,1000

PACKAGING SIZE
1 kg



CODE
A1701,5000

PACKAGING SIZE
5 kg

Technical data

SOLUBILITY: 5 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE:	A1701
PRODUCT NAME:	L-Aspartic Acid (Ph. Eur., USP) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.5 - 101.5 % α20°C/D; 8 %, 6 M HCl: +24.0° - +26.0° Appearance of solution: passes test D-Aspartic Acid: max. 0.3 % Identity: passes test Sulfated ash: max. 0.1 % Loss on drying (3 h; 105°C): max. 0.5 % Ammonium: max. 0.02 % Chloride: max. 0.02 % Sulfate: max. 0.03 % Fe: max. 0.001 % Related substances (Ph. Eur.) Maleic acid: max. 0.10 % Malic acid: max. 0.2 % Fumaric acid: max. 0.10 % Any unspecified impurity: max. 0.10 % Total unspecified impurities: max. 0.3 % Related substances (USP) Maleic acid: max. 0.05 % Malic acid: max. 0.20 % Any unspecified impurity: max. 0.05 % Total unspecified impurities: max. 0.10 % Ninhydrin positive substances (HPLC) Glutamic Acid: max. 0.2 % Alanine: max. 0.2 % Asparagine: max. 0.2 % Total impurities: max. 1.0 %
WGK:	1
STORAGE:	RT
EINECS:	200-291-6
CS:	29224985

L-Proline (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1707

CAS

147-85-3

MOLECULAR FORMULA

C₅H₉NO₂

MOLAR MASS

115.13 g/mol

Packs sizes (3)



CODE

PACKAGING SIZE

CODE
A1707,0100

PACKAGING SIZE
100 g



CODE
A1707,1000

PACKAGING SIZE
1 kg



CODE
A1707,9020

PACKAGING SIZE
20 kg

① Technical data

SOLUBILITY: 1500 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE:	A1707
PRODUCT NAME:	L-Proline (Ph. Eur., USP) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.5 - 101.0 % α25°C/D; 4 %, H₂O: -84.3° - -86.3° Appearance of solution: passes test Identity: passes test Heavy metals (as Pb): max. 0.0015 % Sulfated ash: max. 0.1 % Loss on drying (3 h; 105°C): max. 0.4 % α20°C/D; 4 %, H₂O, calc. on dried subst.: -84.0° - -86.0° Ammonium: max. 0.02 % Chloride: max. 0.02 % Sulfate: max. 0.03 % Fe: max. 0.001 % Ninhydrin positive substances (HPLC) Each individual impurity: max. 0.2 % Total impurities: max. 0.5 % Ninhydrin positive substances (TLC) Each individual impurity: max. 0.5 % Total impurities: max. 2 %

WGK:	1
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STORAGE:	RT
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EINECS:	205-702-2
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CS:	29339980
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L-Isoleucine (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1440

CAS

73-32-5

MOLECULAR FORMULA

C₆H₁₃NO₂

MOLAR MASS

131.18 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE
A1440,1000

PACKAGING SIZE
1 kg

① Technical data

SOLUBILITY: 32 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1440

PRODUCT NAME: L-Isoleucine (Ph. Eur., USP) pure, pharma grade

HEADLINE COMMENT:

- All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr., calc. on dried subst.): 98.5 - 101.0 %
α₂₀°C/D; 4 %; 250 g/L HCl; calc. on dried subst.:

+40.0° - +43.0°
Appearance of solution: passes test
Identity: passes test
Heavy metals (as Pb): max. 0.0015 %
Sulfated ash: max. 0.1 %
Loss on drying (3 h; 105°C): max. 0.3 %
 α 25°C/D; 4 %; 6 N HCl: +38.9° - +41.8°
pH (1 %; H₂O): 5.5 - 7.0
Ammonium: max. 0.02 %
Chloride: max. 0.02 %
Sulfate: max. 0.03 %
Fe: max. 0.001 %
Ninhydrin positive substances (HPLC)
Valine: max. 0.3 %
Leucine: max. 0.3 %
Any other ninhydrin-pos. Subst.: max. 0.2 %
Total impurities: max. 1.0 %
Ninhydrin positive substances (TLC)
Valine: max. 0.5 %
Total impurities: max. 2 %

WGK:	1
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STORAGE:	RT
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EINECS:	200-798-2
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CS:	29224985
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L-Histidine Hydrochloride 1-hydrate

BioChemica

Assay (GC): min. 99 %

CODE

A3733

CAS

5934-29-2

MOLECULAR FORMULA

$C_6H_9N_3O_2 \cdot HCl \cdot H_2O$

MOLAR MASS

209.63 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE

PACKAGING SIZE

A3733,0100

100 g

① Technical data

SOLUBILITY: 400 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A3733

PRODUCT NAME: L-Histidine Hydrochloride 1-hydrate *BioChemica*

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (GC): min. 99 %
 α 20°C/D; 10 %, HCl: +9.2° - +10.6°

Heavy metals (as Pb): max. 0.001 %
Insoluble matter: passes test
Other amino acids: max. 0.5 %
Ammonium: max. 0.1 %
Sulfate: max. 0.02 %

WGK: 1

STORAGE: RT

EINECS: 211-438-9

CS: 29332990

L-Histidine base *BioChemica*

Assay (titr.): min. 99 %

CODE

A3738

CAS

71-00-1

MOLECULAR FORMULA

C₆H₉N₃O₂

MOLAR MASS

155.16 g/mol

Packs sizes (2)



CODE

PACKAGING SIZE

CODE
A3738,0100

PACKAGING SIZE
100 g



CODE
A3738,1000

PACKAGING SIZE
1 kg

Technical data

SOLUBILITY: 42 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A3738

PRODUCT NAME: L-Histidine base *BioChemica*

HEADLINE COMMENT:

- All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS:

Assay (titr.): min. 99 %
 α 20°C/D; 11 %, HCl 120 g/l: +11.8° - +12.8°
Heavy metals (as Pb): max. 0.001 %
Insoluble matter: passes test
Other amino acids: max. 0.5 %
Ammonium: max. 0.1 %
Chloride: max. 0.02 %
Sulfate: max. 0.02 %

WGK:

1

STORAGE:

RT

EINECS:

200-745-3

CS:29332990

L-Glutamine for cell culture

Assay (titr.): min. 99 %

CODE

A3704

CAS

56-85-9

MOLECULAR FORMULA

C₅H₁₀N₂O₃

MOLAR MASS

146.15 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE

A3704,1000

PACKAGING SIZE

1 kg

Technical data

SOLUBILITY: 100 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A3704

PRODUCT NAME: L-Glutamine for cell culture

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Endotoxins: max. 6.0 EU/g
Assay (titr.): min. 99 %
α20°C/D; 10 %, 7 % HCl: +31.5° - +33.0°
Other amino acids: max. 0.5 %

Ammonium: max. 0.1 %
Chloride: max. 0.02 %
Sulfate: max. 0.02 %
As: max. 0.0001 %
Fe: max. 0.001 %
Pb: max. 0.001 %

WGK: 1

STORAGE: RT

EINECS: 200-292-1

CS: 29241900

L-Glutamic Acid (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 100.5 %

CODE	A1704
CAS	56-86-0
MOLECULAR FORMULA	$C_5H_9NO_4$
MOLAR MASS	147.13 g/mol

Packs sizes (2)



CODE

PACKAGING SIZE

CODE
A1704,1000

PACKAGING SIZE
1 kg



CODE
A1704,9025

PACKAGING SIZE
25 kg

Technical data

SOLUBILITY: 11 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1704

PRODUCT NAME: L-Glutamic Acid (Ph. Eur., USP) pure, pharma grade

HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.5 - 100.5 % α20°C/D; 10 %, 1 M HCl, calc. on dried subst.: +30.5° - +32.5° Appearance of solution: passes test Identity: passes test Sulfated ash: max. 0.1 % Loss on drying (3 h; 105°C): max. 0.1 % α20°C/D; 10 %, 2 M HCl: +31.5° - +32.5° Ninhydrin positive substances: max. 0.5 % Ammonium: max. 0.02 % Chloride: max. 0.02 % Sulfate: max. 0.02 % Fe: max. 0.001 % Elemental impurities (according to ICH Q3D): passes test

WGK:	1
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STORAGE:	RT
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EINECS:	200-293-7
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CS:	29224200
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L-Cystine (Ph. Eur.) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1703

CAS

56-89-3

MOLECULAR FORMULA

C₆H₁₂N₂O₄S₂

MOLAR MASS

240.30 g/mol

Packs sizes (4)

	CODE	PACKAGING SIZE	
	CODE A1703,0100	PACKAGING SIZE 100 g	
	CODE A1703,0500	PACKAGING SIZE 500 g	Product discontinued. Alternative A1703,0100 (please check specifications).
	CODE A1703,1000	PACKAGING SIZE 1 kg	
	CODE A1703,5000	PACKAGING SIZE 5 kg	

Technical data

SOLUBILITY:

0.11 g/L (H₂O)

PHYSICAL DESCRIPTION:	Solid
PRODUCT CODE:	A1703
PRODUCT NAME:	L-Cystine (Ph. Eur.) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.5 - 101.0 % α20°C/D; 2 %, 1 M HCl, calc. on dried subst.: -224° - -218° Appearance of solution: passes test Identity: passes test Sulfated ash: max. 0.1 % Loss on drying: max. 0.5 % Ammonium: max. 0.02 % Chloride: max. 0.02 % Sulfate: max. 0.03 % Fe: max. 0.001 % Ninhydrin positive substances (HPLC) Any other ninhydrin-pos. Subst.: max. 0.2 % Total impurities: max. 0.5 %
WGK:	1
STORAGE:	RT
EINECS:	200-296-3
CS:	29309013

L-Lysine 1-hydrate (DAB) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.5 %

CODE

A1342

CAS

39665-12-8

MOLECULAR FORMULA

$C_6H_{14}N_2O_2 \cdot H_2O$

MOLAR MASS

164.21 g/mol

Packs sizes (3)



CODE

PACKAGING SIZE

CODE
A1342,0100

PACKAGING SIZE
100 g



CODE
A1342,0250

PACKAGING SIZE
250 g



CODE
A1342,9010

PACKAGING SIZE
10 kg

Technical data

SOLUBILITY: 300 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE:	A1342
PRODUCT NAME:	L-Lysine 1-hydrate (DAB) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.5 - 101.5 % α20°C/D; 8 %, 6 M HCl, calc. on dried subst.: +25.5° - +27.0° Appearance of solution: passes test Identity: passes test pH (2.5 %; H₂O): 9.0 - 10.5 Heavy metals (as Pb): max. 0.001 % Sulfated ash: max. 0.1 % Ninhydrin positive substances: max. 0.5 % Water (K.F.): 10.0 - 11.5 % Ammonium: max. 0.02 % Chloride: max. 0.03 % Sulfate: max. 0.02 % Fe: max. 0.001 % Elemental impurities (according to ICH Q3D): Class 1 (Cd): max. 0.5 ppm Class 2B (Au): max. 10 ppm Class 2B (Rh): max. 10 ppm Class 2A (Co): max. 5 ppm Class 3 (Li): max. 55 ppm Class 1 (Pb): max. 0.5 ppm Class 1 (As): max. 1.5 ppm Class 1 (Hg): max. 1.5 ppm Class 2A (V): max. 10 ppm Class 2A (Ni): max. 20 ppm Class 2B (Tl): max. 0.8 ppm Class 2B (Pd): max. 10 ppm Class 2B (Ir): max. 10 ppm Class 2B (Os): max. 10 ppm Class 2B (Ru): max. 10 ppm Class 2B (Pt): max. 10 ppm Class 2B (Se): max. 15 ppm Class 2B (Ag): max. 15 ppm Class 3 (Sb): max. 120 ppm Class 3 (Ba): max. 140 ppm Class 3 (Mo): max. 25 ppm Class 3 (Cr): max. 25 ppm

Class 3 (Cu): max. 250 ppm
Class 3 (Sn): max. 600 ppm

WGK: 1

STORAGE: RT

EINECS: 200-294-2

CS: 29224100

L-Leucine (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE	A1426
CAS	61-90-5
MOLECULAR FORMULA	$C_6H_{13}NO_2$
MOLAR MASS	131.18 g/mol

Packs sizes (1)



CODE	PACKAGING SIZE
CODE A1426,1000	PACKAGING SIZE 1 kg

① Technical data

SOLUBILITY: 24.5 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1426

PRODUCT NAME: L-Leucine (Ph. Eur., USP) pure, pharma grade

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr., calc. on dried subst.): 98.5 - 101.0 %
 α 25°C/D; 4 %, 6 N HCl: +14.9° - +17.3°

Appearance of solution: passes test
Identity: passes test
pH (1 %; H₂O; 25°C): 5.5 - 7.0
Heavy metals (as Pb): max. 0.0015 %
Sulfated ash: max. 0.1 %
Loss on drying (3 h; 105°C): max. 0.2 %
 α 20°C/D; 4 %, HCl 250 g/L, calc. on dried subst.:
+14.5° - +16.5°
Ammonium: max. 0.02 %
Chloride: max. 0.02 %
Sulfate: max. 0.03 %
Fe: max. 0.001 %
Ninhydrin positive substances (HPLC)
Isoleucine: max. 0.8 %
Any other ninhydrin-pos. Subst.: max. 0.2 %
Total impurities: max. 1.0 %

WGK:	1
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STORAGE:	RT
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EINECS:	200-522-0
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CS:	29224985
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L-Hydroxyproline pure

Assay (titr.): 99.0 - 101.0 %

CODE

A1705

CAS

51-35-4

MOLECULAR FORMULA

C₅H₉NO₃

MOLAR MASS

131.1 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE
A1705,0250

PACKAGING SIZE
250 g

Technical data

SOLUBILITY: 361 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1705

PRODUCT NAME: L-Hydroxyproline pure

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr.): 99.0 - 101.0 %
α₂₀°C/D; 5 %, H₂O: -74° - -77°
Heavy metals (as Pb): max. 0.001 %
Sulfated ash: max. 0.1 %

Loss on drying: max. 0.2 %
Other amino acids: max. 0.5 %
Ammonium: max. 0.02 %
Chloride: max. 0.02 %
Sulfate: max. 0.02 %

WGK: 1

STORAGE: RT

EINECS: 200-091-9

CS: 29339980

L-Histidine base (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1341

CAS

71-00-1

MOLECULAR FORMULA

C₆H₉N₃O₂

MOLAR MASS

155.16 g/mol

Packs sizes (3)



CODE

CODE
A1341,0100

PACKAGING SIZE

PACKAGING SIZE
100 g

Product active until stock lasts.



CODE
A1341,1000

PACKAGING SIZE
1 kg



CODE
A1341,5000

PACKAGING SIZE
5 kg

① Technical data

SOLUBILITY:

42 g/L (H₂O)

PHYSICAL DESCRIPTION:

Solid

PRODUCT CODE:	A1341
PRODUCT NAME:	L-Histidine base (Ph. Eur., USP) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.5 - 101.0 % α20°C/D; 11 %, HCl 120 g/L; calc. on dried subst.: +11.4° - +12.4° α25°C/D; 11 %, 6 M HCl; calc. on dried subst.: +12.6° - +14.0° Appearance of solution: passes test Identity: passes test pH (2 %; H₂O; 25°C): 7.0 - 8.5 Sulfated ash: max. 0.1 % Loss on drying (3 h; 105°C): max. 0.2 % Heavy metals (as Pb): max. 0.0015 % Ammonium: max. 0.02 % Chloride: max. 0.02 % Sulfate: max. 0.03 % Fe: max. 0.001 % Ninhydrin positive substances (HPLC) Each individual impurity: max. 0.2 % Total impurities: max. 0.5 % Ninhydrin positive substances (TLC) Each individual impurity: max. 0.5 % Total impurities: max. 2 %
WGK:	1
STORAGE:	RT
EINECS:	200-745-3
CS:	29332990

L-Histidine Hydrochloride 1-hydrate (Ph. Eur.) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1591

CAS

5934-29-2

MOLECULAR FORMULA

$C_6H_9N_3O_2 \cdot HCl \cdot H_2O$

MOLAR MASS

209.63 g/mol

Packs sizes (3)



CODE

PACKAGING SIZE

CODE
A1591,0100

PACKAGING SIZE
100 g



CODE
A1591,0500

PACKAGING SIZE
500 g



CODE
A1591,1000

PACKAGING SIZE
1 kg

① Technical data

SOLUBILITY: 400 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE:	A1591
PRODUCT NAME:	L-Histidine Hydrochloride 1-hydrate (Ph. Eur.) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.5 - 101.0 % α20°C/D; 11 %, HCl 120 g/L; calc. on dried subst.: +9.2° - +10.6° Appearance of solution: passes test Identity: passes test pH (5 %; H₂O): 3.0 - 5.0 Sulfated ash: max. 0.1 % Loss on drying: 7.0 - 10.0 % Ammonium: max. 0.02 % Sulfate: max. 0.03 % Fe: max. 0.001 % Ninhydrin positive substances (HPLC) Each individual impurity: max. 0.2 % Total impurities: max. 0.5 %
WGK:	1
STORAGE:	RT
EINECS:	211-438-9
CS:	29332990

L-Serine (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE	A1708
CAS	56-45-1
MOLECULAR FORMULA	$C_3H_7NO_3$
MOLAR MASS	105.09 g/mol

Packs sizes (2)



CODE

PACKAGING SIZE

CODE
A1708,0100

PACKAGING SIZE
100 g



CODE
A1708,1000

PACKAGING SIZE
1 kg

Technical data

SOLUBILITY: 364 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1708

PRODUCT NAME: L-Serine (Ph. Eur., USP) pure, pharma grade

HEADLINE COMMENT:

- All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS:

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %
 α 20°C/D; 10 %, 2 M HCl, calc. on dried subst.:
+14.0° - +16.0°
 α 25°C/D; 10 %, 2 N HCl: +14.0° - +15.6°
Appearance of solution: passes test
Identity: passes test
Heavy metals (as Pb): max. 0.0015 %
Sulfated ash: max. 0.1 %
Loss on drying (3 h; 105°C): max. 0.2 %
Ammonium: max. 0.02 %
Chloride: max. 0.02 %
Sulfate: max. 0.03 %
Fe: max. 0.001 %
Ninhydrin positive substances (HPLC)
each individual impurity: max. 0.2 %
Total impurities: max. 0.5 %
Ninhydrin positive substances (TLC)
Each individual impurity: max. 0.5 %
Total impurities: max. 2 %

WGK:

1

STORAGE:RT

EINECS:

200-274-3

CS:29225000

L-Phenylalanine (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1344

CAS

63-91-2

MOLECULAR FORMULA

C₉H₁₁NO₂

MOLAR MASS

165.19 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE
A1344,1000

PACKAGING SIZE
1 kg

① Technical data

SOLUBILITY: 27 g/L

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1344

PRODUCT NAME: L-Phenylalanine (Ph. Eur., USP) pure, pharma grade

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

α 25°C/D; 2 %, H₂O: -32.7° - -34.7°
Appearance of solution: passes test
Identity: passes test
pH (1 %; H₂O; 25°C): 5.4 - 6.0
Heavy metals (as Pb): max. 0.0015 %
Loss on drying (3 h; 105°C): max. 0.3 %
 α 20°C/D; 2 %, H₂O, calc. on dried subst.: -35.5° -
-33.0°
Sulfated ash: max. 0.1 %
Ammonium: max. 0.02 %
Chloride: max. 0.02 %
Sulfate: max. 0.03 %
Fe: max. 0.001 %
Ninhydrin positive substances (HPLC)
each individual impurity: max. 0.2 %
Total impurities: max. 0.5 %
Ninhydrin positive substances (TLC)
Each individual impurity: max. 0.5 %
Total impurities: max. 2 %

WGK:	1
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STORAGE:	RT
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EINECS:	200-568-1
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CS:	29224985
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L-Ornithine Hydrochloride (DAB) pure, pharma grade

Assay (titr., calc. on dried subst.): 99.0 - 102.0 %

CODE

A1343

CAS

3184-13-2

MOLECULAR FORMULA

C₅H₁₂N₂O₂ · HCl

MOLAR MASS

168.62 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE

PACKAGING SIZE

A1343,1000

1 kg

① Technical data

SOLUBILITY: 100 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1343

PRODUCT NAME: L-Ornithine Hydrochloride (DAB) pure, pharma grade

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr., calc. on dried subst.): 99.0 - 102.0 %

α 20°C/D; 4 %, 6 M HCl: +23° - +25°
Appearance of solution: passes test
Identity: passes test
pH (2.5 %; H₂O): 5.0 - 6.0
Heavy metals (as Pb): max. 0.001 %
Sulfated ash: max. 0.1 %
Loss on drying: max. 0.5 %
Ninhydrin positive substances: max. 0.5 %
Ammonium: max. 0.02 %
Sulfate: max. 0.02 %
Fe: max. 0.001 %

WGK:	1
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STORAGE:	RT
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EINECS:	221-678-6
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CS:	29224985
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L-Methionine (Ph. Eur., USP) pure, pharma grade

Assay (titr.): 99.0 - 101.0 %

CODE	A1340
CAS	63-68-3
MOLECULAR FORMULA	C ₅ H ₁₁ NO ₂ S
MOLAR MASS	149.21 g/mol

Packs sizes (2)

	CODE	PACKAGING SIZE
	CODE A1340,0100	PACKAGING SIZE 100 g
	CODE A1340,1000	PACKAGING SIZE 1 kg

Technical data

SOLUBILITY:	48 g/L (H ₂ O)
PHYSICAL DESCRIPTION:	Solid
PRODUCT CODE:	A1340
PRODUCT NAME:	L-Methionine (Ph. Eur., USP) pure, pharma grade
HEADLINE COMMENT:	

- All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS:

Assay (titr.): 99.0 - 101.0 %
 α 25°C/D; 2 %, 6 M HCl: +22.4° - +24.7°
Appearance of solution: passes test
Identity: passes test
pH (1 %; H₂O): 5.6 - 6.1
Sulfated ash: max. 0.1 %
Loss on drying (3 h; 105°C): max. 0.3 %
 α 20°C/D; 2 %, 250 g/L HCl (calc. on dried subst.):
+22.5° - +24.0°
pH (2.5 %; H₂O): 5.5 - 6.5
Ammonium: max. 0.02 %
Chloride: max. 0.02 %
Sulfate: max. 0.03 %
Fe: max. 0.001 %
Related substances (Ph. Eur.)
Each individual impurity: max. 0.1 %
Total impurities: max. 0.3 %
Related substances (USP)
Methionine sulfoxide: max. 0.1 %
N-Acetyl-D,L- methionine: max. 0.2 %
Any unspecified impurity: max. 0.1 %
Total unspecified impurities: max. 0.30 %

WGK:	1
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STORAGE:	RT
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EINECS:	200-562-9
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CS:	29304010
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L-Lysine Monohydrochloride (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1706

CAS

657-27-2

MOLECULAR FORMULA

$C_6H_{14}N_2O_2 \cdot HCl$

MOLAR MASS

182.65 g/mol

Packs sizes (2)



CODE

PACKAGING SIZE

CODE
A1706,1000

PACKAGING SIZE
1 kg



CODE
A1706,9025

PACKAGING SIZE
25 kg

Technical data

SOLUBILITY: 420 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1706

PRODUCT NAME: L-Lysine Monohydrochloride (Ph. Eur., USP) pure, pharma grade

HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.5 - 101.0 % α25°C/D; 8 %, 6 M HCl: +20.4° - +21.4° Appearance of solution: passes test Identity: passes test Sulfated ash: max. 0.1 % Loss on drying (3 h; 105°C): max. 0.4 % α20°C/D; 8 %, HCl 250 g/L, calc. on dried subst.: +21.0° - +22.5° Ammonium: max. 0.02 % Chloride: 19.0 - 19.6 % Sulfate: max. 0.03 % Fe: max. 0.003 % Ninhydrin positive substances (HPLC) Each individual impurity: max. 0.2 % Total impurities: max. 1.0 % Ninhydrin positive substances (TLC) Each individual impurity: max. 0.5 % Total impurities: max. 2 % Elemental impurities (according to ICH Q3D): passes test

WGK:	1
STORAGE:	RT

EINECS:	211-519-9
CS:	29224100

L-Valine (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1637

CAS

72-18-4

MOLECULAR FORMULA

C₅H₁₁NO₂

MOLAR MASS

117.15 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE

PACKAGING SIZE

A1637,1000

1 kg

① Technical data

SOLUBILITY: 85 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1637

PRODUCT NAME: L-Valine (Ph. Eur., USP) pure, pharma grade

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr., calc. on dried subst.): 98.5 - 101.0 %
α₂₀°C/D; 8 %, 250 g/L HCl, calc. on dried subst.:

+26.5° - +29.0°
Appearance of solution: passes test
Identity: passes test
pH (5 %; H₂O): 5.5 - 7.0
Heavy metals (as Pb): max. 0.0015 %
Sulfated ash: max. 0.1 %
Loss on drying (3 h; 105°C): max. 0.3 %
α25°C/D; 8 %, 6 M HCl: +26.6° - +28.8°
Ammonium: max. 0.02 %
Chloride: max. 0.02 %
Sulfate: max. 0.03 %
Fe: max. 0.001 %
Ninhydrin positive substances (HPLC)
Isoleucine: max. 0.4 %
Any other ninhydrin-pos. Subst.: max. 0.2 %
Total impurities: max. 1.0 %
Related subst. (TLC)
Any unspecified impurity: max. 0.2 %
Sum of other amino acids: max. 1.0 %
Isoleucine: max. 0.2 %

WGK:	1
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STORAGE:	RT
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EINECS:	200-773-6
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CS:	29224985
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L-Tyrosine (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 99.0 - 101.0 %

CODE

A1677

CAS

60-18-4

MOLECULAR FORMULA

C₉H₁₁NO₃

MOLAR MASS

181.19 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE

PACKAGING SIZE

A1677,1000

1 kg

① Technical data

SOLUBILITY: 0.4 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1677

PRODUCT NAME: L-Tyrosine (Ph. Eur., USP) pure, pharma grade

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr., calc. on dried subst.): 99.0 - 101.0 %
α₂₀°C/D; 5 %, 1 N HCl, calc. on dried subst.: -12.3°

- -11.0°

Appearance of solution: passes test

Identity: passes test

Heavy metals (as Pb): max. 0.0015 %

Sulfated ash: max. 0.1 %

Loss on drying (3 h; 105°C): max. 0.3 %

α 25°C/D; 5 %, 1 N HCl: -11.2° - -9.8°

Ammonium: max. 0.02 %

Chloride: max. 0.02 %

Sulfate: max. 0.03 %

Fe: max. 0.001 %

Ninhydrin positive substances (HPLC)

Phenylalanine: max. 0.5 %

Any other ninhydrin-pos. Subst.: max. 0.2 %

Total impurities: max. 0.6 %

Ninhydrin positive substances (TLC)

Each individual impurity: max. 0.5 %

Total impurities: max. 2 %

WGK:

1

STORAGE:

RT

EINECS:

200-460-4

CS:

29225000

L-Tyrosine for cell culture

Assay (titr.): min. 99 %

CODE

A3401

CAS

60-18-4

MOLECULAR FORMULA

C₉H₁₁NO₃

MOLAR MASS

181.19 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE
A3401,1000

PACKAGING SIZE
1 kg

Product active until stock lasts.

Technical data

SOLUBILITY: 0.4 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A3401

PRODUCT NAME: L-Tyrosine for cell culture

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Pyrogen test: passes test
Assay (titr.): min. 99 %
α_{20°C/D}; 5 %, 1 N HCl, calc. on dried subst.: -12.3°
- -11.0°

Other amino acids: max. 0.5 %
Ammonium: max. 0.1 %
Chloride: max. 0.02 %
Sulfate: max. 0.02 %
As: max. 0.0001 %
Fe: max. 0.001 %
Pb: max. 0.001 %

WGK: 1

STORAGE: RT

EINECS: 200-460-4

CS: 29225000

L-Tryptophan (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 98.5 - 101.0 %

CODE

A1645

CAS

73-22-3

MOLECULAR FORMULA

C₁₁H₁₂N₂O₂

MOLAR MASS

204.23 g/mol

Packs sizes (3)



CODE

PACKAGING SIZE

CODE
A1645,0100

PACKAGING SIZE
100 g



CODE
A1645,0500

PACKAGING SIZE
500 g



CODE
A1645,1000

PACKAGING SIZE
1 kg

① Technical data

SOLUBILITY: 10 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE:	A1645
PRODUCT NAME:	L-Tryptophan (Ph. Eur., USP) pure, pharma grade
HEADLINE COMMENT:	• All amino acids from AppliChem are of non-animal origin!
SPECIFICATIONS:	Assay (titr., calc. on dried subst.): 98.5 - 101.0 % α20°C/D; 1 %, H₂O, calc. on dried subst.: -33.0° - -30.0° Appearance of solution: passes test Identity: passes test pH (1 %; H₂O; 20°C): 5.5 - 7.0 Heavy metals (as Pb): max. 0.0015 % Sulfated ash: max. 0.1 % Loss on drying (3 h; 105°C): max. 0.3 % α25°C/D; 1 %, H₂O: -32.8° - -29.4° Ammonium: max. 0.02 % Chloride: max. 0.02 % Sulfate: max. 0.03 % Fe: max. 0.002 % Ninhydrin positive substances (HPLC) each individual impurity: max. 0.2 % Total impurities: max. 0.5 % Impurity A and other related subst. (HPLC) Total impurity befor Tryptophan: max. 0.01 % Total impurity afterTryptophan: max. 0.03 % Impurity A: max. 0.001 %
WGK:	1
STORAGE:	RT
EINECS:	200-795-6
CS:	29339980

L-Threonine (Ph. Eur., USP) pure, pharma grade

Assay (titr., calc. on dried subst.): 99.0 - 101.0 %

CODE

A1419

CAS

72-19-5

MOLECULAR FORMULA

C₄H₉NO₃

MOLAR MASS

119.12 g/mol

Packs sizes (1)



CODE

PACKAGING SIZE

CODE
A1419,1000

PACKAGING SIZE
1 kg

① Technical data

SOLUBILITY: 90 g/L (H₂O)

PHYSICAL DESCRIPTION: Solid

PRODUCT CODE: A1419

PRODUCT NAME: L-Threonine (Ph. Eur., USP) pure, pharma grade

HEADLINE COMMENT: • All amino acids from AppliChem are of non-animal origin!

SPECIFICATIONS: Assay (titr., calc. on dried subst.): 99.0 - 101.0 %
α_{20°C/D}; 6 %, H₂O, calc. on dried subst.: -27.6° -

-29.0°

Appearance of solution: passes test

Identity: passes test

pH (2.5 %; H₂O): 5.0 - 6.5

Heavy metals (as Pb): max. 0.0015 %

Sulfated ash: max. 0.1 %

Loss on drying (3 h; 105°C): max. 0.2 %

α 25°C/D; 6 %, H₂O: -26.7° - -29.1°

pH (5 %; H₂O): 5.0 - 6.5

Ammonium: max. 0.02 %

Chloride: max. 0.02 %

Sulfate: max. 0.03 %

Fe: max. 0.001 %

Ninhydrin positive substances (HPLC)

each individual impurity: max. 0.2 %

Total impurities: max. 0.5 %

Ninhydrin positive substances (TLC)

Each individual impurity: max. 0.5 %

Total impurities: max. 2 %

WGK:

1

STORAGE:

RT

EINECS:

200-774-1

CS:

29225000

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