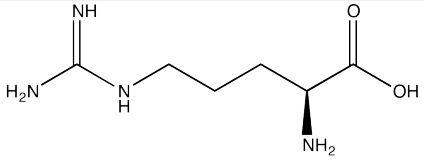
AR0120
L-Arginine, Pharmpur®, Ph Eur, BP, USP

Identification

$C_6H_{14}N_4O_2$
M = 174,20 g/mol
CAS [74-79-3]
EC number: 200-811-1
Taric code: 2925 29 00



Synonyms

2-Amino-5-guanidinovaleric acid

Applications

for pharmaceuticals synthesizing, in food industry, in pharma industry.

Specifications

assay (titr. with HClO4, 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 ([a]25°/D; c=8, HCl 6N)	+ 26,3 ° - + 27,7 °
specific rotation ([a]20 /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 (NH4)	max. 0,02 %
iron (Fe)	max. 10 ppm
ninhydrin-positive substances:	
individual	max. 0,2 %
total	max. 0,5 %
organic impurities	
individual	max. 0,5 %
total	max. 2,0 %
residue on ignition	max. 0,1 %
loss on drying (105 ºC)	max. 0,5 %

Physical data

- Appearance: powder, white or almost white
- Bulk density: ~ 640 kg/m^3
- Solub. in water: (20 ºC): 148,7 g/l
- Melting point: 216 - 218 ºC (decomposes)
- pH(100 g/l H_2O, 20 ºC) ~ 11,4

Safety - GHS

Signal Word: Warning

Hazard Statements:

H319: Causes serious eye irritation.

Precautionary Statements:

P280: Wear protective gloves / protective clothing / eye protection / face protection.
P264: Wash thoroughly after handling.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice / attention.

Transport/storage

- 5°C - 30°C