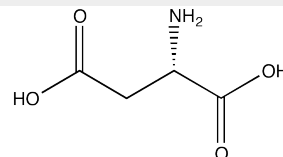


L-Aspartic acid, Pharmapur®, Ph Eur, BP, USP

Identification

$C_4H_7NO_4$
M = 133,10 g/mol
CAS [56-84-8]
EC number: 200-291-6
Taric code: 2922 49 95



Synonyms

L-a-Aminosuccinic acid

Applications

for pharmaceuticals synthesizing, synthesis of organic products, in food industry, in pharma industry.

Specifications

assay (acidimetric, on dried sample).....	98,5 - 101,5 %	fumaric acid.....	max. 0,10 %
identity (IR-spectrum).....	passes test	maleic acid.....	max. 0,05 %
Identification B (EP).....	passes test	any unspecified impurities.....	max. 0,05 %
Identification D (EP).....	passes test	total unspecified impurities.....	max. 0,1 %
Identification TLC.....	passes test	total.....	max. 0,3 %
appearance of solution.....	passes test	ninhydrin-positive substances.....	
specific rotation $[\alpha]_{20}^{20}$ /D, c = 8, HCl 250g/l on dried substance) +		glutamic acid.....	max. 0,2 %
24,0 ° - + 26,0 °		alanine.....	max. 0,2 %
chlorides (Cl).....	max. 200 ppm	asparagine.....	max. 0,2 %
sulfates (SO ₄).....	max. 300 ppm	any ninhydrin-positive substances.....	max. 0,10 %
ammonium (NH ₄).....	max. 0,02 %	total.....	max. 1,0 %
iron (Fe).....	max. 10 ppm	D-aspartic acid.....	max. 0,3 %
Related compounds:		residue on ignition.....	max. 0,1 %
malic acid.....	max. 0,20 %	loss on drying (105 °C, 3 h).....	max. 0,5 %

Physical data

- Appearance: bright crystals, colourless or white
- Bulk density: ~ 430 kg/m³
- Solub. in water: (20 °C): 4 g/l
- Melting point: 269 - 271 °C
- pH(4 g/l H₂O, 20 °C) 2,5 - 3,5

Transport/storage

- 15°C - 25°C