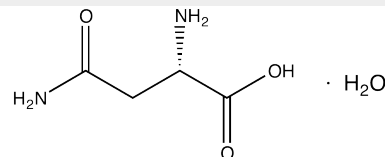


L-Asparagine monohydrate, Pharmpur®, Ph Eur, BP

Identification

$C_4H_8N_2O_3 \cdot H_2O$
M = 150,14 g/mol
CAS [5794-13-8]
EC number: 200-735-9
Taric code: 2924 19 00



Synonyms

Asparaginic acid semiamide

Applications

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

Specifications

assay (titration with $HClO_4$, on dried sample)	99,0 - 101,0 %	ammonium (NH_4).....	max. 0,1 %
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 10 ppm
Identification TLC.....	passes test	residue on ignition.....	max. 0,1 %
appearance of solution (2 %, H_2O).....	clear and colourless	loss on drying (60 °C, 24 h)	10,5 - 12,5 %
specific rotation (20°/D, c=10, HCl 10%)	+ 33,7 ° - + 36,0 °	Related substances:	
pH (2 %, H_2O).....	4,0 - 6,0	aspartic acid.....	max. 0,5 %
chlorides (Cl).....	max. 200 ppm	2,2'-[(2Ξ,5Ξ)-3,6-dioxopiperazine-2,5-diyl]diacetamide	max. 0,1 %
sulfates (SO_4).....	max. 200 ppm	any unspecified impurities.....	max. 0,05 %
		total	max. 0,8 %

Physical data

- Bulk density: ~ 530 kg/m³
- Solub. in water: (20 °C): 22 g/l
- Melting point: 215 - 217 °C (decomposes)
- pH(15 g/l H_2O , 20 °C) 4,1

Transport/storage

- 5°C - 30°C