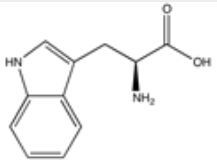
TR0400
L-Tryptophan, Pharmpur®, Ph Eur, BP, USP

Identification

$C_{11}H_{12}N_2O_2$
M = 204,23 g/mol
CAS [73-22-3]
EC number: 200-795-6
Taric code:



Synonyms

(S)-α-Amino-1H-indole-3-propanoic acid

Applications

in biochemistry, for pharmaceuticals synthesizing, for determination of proteins, in pharma industry.

Specifications

assay (titr. with HClO4, referred to dried sample) ..... 98,5 - 101,0 %
Identification TLC..... passes test
Identification D (EP)..... passes test
appearance of solution..... passes test
pH (1 %, H2O)..... 5,5 - 7,0
chlorides (Cl)..... max. 200 ppm
sulfates (SO_4)..... max. 300 ppm
ammonium (NH4)..... max. 0,02 %
specific rotation ([α]20°/D, c = 10, H_2O)..... referred to dried sample)..... -33,0 - -30,0

specific rotation ([α]25°/D, c = 10, H2O) -29,4 - -32,8
iron (Fe)..... max. 20 ppm
ninhydrin-positive substances:
any ninhydrin-positive substances..... max. 0,2 %
total impurities..... max. 0,5 %
impurity A and related substances.....
impurity A..... max. 10 ppm
sum of the impurities with a retention time less than that of tryptophan max. 100 ppm.....
sum of the impurities with a retention time greater than that of tryptophan, up to 1.8 times the retention time of N-acetyltryptophan max. 300 ppm
sum of the impurities with a retention time greater than that of tryptophan ..... max. 300 ppm
residue on ignition..... max. 0,1 %
loss on drying (105 °C)..... max. 0,3 %

Physical data

- Appearance: amorphous powder, white
- Bulk density: ~ 400 kg/m^3
- Solub. in water: (20 °C): 10 g/l
- Melting point: 290 °C (decomposes)
- pH(10 g/l H_2O, 20 °C) 5,5 - 7,0

Transport/storage

- 10°C - 30°C