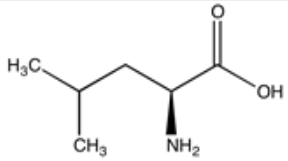
LE0055
L-Leucine, Pharmpur®, Ph Eur, BP, USP

Identification

$C_6H_{13}NO_2$
M = 131,18 g/mol
CAS [61-90-5]
EC number: 200-522-0
Taric code: 2922 49 95



Synonyms

2-Amino-4-methylvaleric acid, α-Aminoisocaproic acid, 2-Amino-4-methylpentanoic acid

Applications

in biochemistry, in food industry, synthesis of organic products, in pharma industry.

Specifications

assay (titr. with HClO4, referred to dried sample)	98,5 - 101,0 %
identification	passes test
appearance of solution	passes test
specific rotation ([α]20°/D, c = 4, HCl 250g/l)	+14,5 ° - +16,5 °
specific rotation ([α]25°/D; c=4, HCl 6N)	+ 14,9 ° - + 17,3 °
pH (1 %, H2O)	5,5 - 7,0
chlorides (Cl)	max. 200 ppm
sulfates (SO_4)	max. 300 ppm
ammonium (NH4)	max. 0,02 %
iron (Fe)	max. 10 ppm
ninhydrin-positive substances	passes test
residue on ignition	max. 0,1 %
loss on drying (105 ºC)	max. 0,2 %

Physical data

- Appearance: crystals or powder, bright white
- Spec. Density: 1,29 g/cm^3
- Bulk density: ~ 300 - 400 kg/m^3
- Solub. in water: (20 ºC): 24 g/l
- Melting point: 300 ºC (decomposes)
- pH(20 g/l H_2O, 20 ºC) 5,5 - 6,5

Transport/storage

- 5°C - 30°C