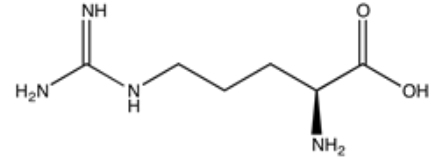


**Identification**

$C_6H_{14}N_4O_2$   
 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 HClO <sub>4</sub> , referred to dried sample)	98,5 - 101,5 %	sulfates (SO <sub>4</sub> ).....	max. 300 ppm
assay (acidimetric, referred to dried sample).....	98,5 - 101,0 %	ammonium (NH <sub>4</sub> ).....	max. 0,02 %
Identification IR.....	passes test	iron (Fe).....	max. 10 ppm
Identification TLC.....	passes test	ninhydrin-positive substances:	
Identification B (EP).....	passes test	individual.....	max. 0,2 %
Identification E (EP).....	passes test	total.....	max. 0,5 %
appearance of solution.....	passes test	organic impurities	
specific rotation ([α] <sub>25</sub> <sup>°</sup> /D; c=8, HCl 6N).....	+ 26,3 ° - + 27,7 °	individual.....	max. 0,5 %
specific rotation ([α] <sub>20</sub> <sup>°</sup> /D, c = 8, HCl 250g/l on dried substance)	+ 25,5 ° - + 28,5 °	total.....	max. 2,0 %
chlorides (Cl).....	max. 200 ppm	residue on ignition.....	max. 0,1 %
		loss on drying (105 °C).....	max. 0,5 %

**Physical data**

- Appearance: powder, white or almost white
- Bulk density: ~ 640 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 148,7 g/l
- Melting point: 216 - 218 °C (decomposes)
- pH(100 g/l H<sub>2</sub>O, 20 °C) ~ 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