

# Chem-Impex International, Inc.

---

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

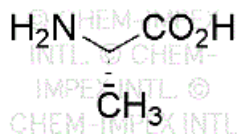
Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

---



## Product Specifications

|                               |   |
|-------------------------------|---|
| <b>Catalogue Number</b>       | 00019   |
| <b>Product</b>                | <b>L-Alanine</b><br>L-Ala-OH<br>(S)-2-Aminopropanoic acid   |
| <b>CAS Number</b>             | 56-41-7   |
| <b>Molecular Formula</b>      | C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>   |
| <b>Molecular Weight</b>       | 89.09   |
| <hr/>                         |   |
| <b>Appearance</b>             | White crystals or crystalline powder  |
| <b>Heavy Metals</b>           | ≤ 15 ppm  |
| <b>Anion</b>                  | Chloride (Cl <sup>-</sup> ) : ≤ 0.05%<br>Sulfate (SO <sub>4</sub> <sup>2-</sup> ) : ≤ 0.03%   |
| <b>Cation</b>                 | Iron (Fe) : ≤ 30 ppm  |
| <b>pH</b>                     | 5.5 - 7.0   |
| <b>Optical Rotation</b>       | [α] <sup>20</sup> <sub>D</sub> = 13.7 - 15.1 °  |
| <b>Loss on Drying</b>         | ≤ 0.2% (105 °, 3h)  |
| <b>Related Substances</b>     | Maleic acid : ≤ 0.05%<br>Malic acid : ≤ 0.05%<br>Fumaric acid : ≤ 0.05%<br>Any unspecified impurity : ≤ 0.05%<br>Total unspecified impurities : ≤ 0.20% |
| <b>Residue On Ignition</b>    | ≤ 0.15%   |
| <b>Assay</b>                  | 98.5 - 101.5% (on dried basis)  |
| <b>Grade</b>                  | Meets USP Specification   |
| <b>Storage</b>                | Store at RT   |
| <b>Additional Information</b> | Identification :<br>Test for A : Infrared spectrum : Conforms to structure  |

# *Product Specifications*

Catalog Number: 00019

---

**For Laboratory Use Only**