

# Chem-Impex International, Inc.

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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

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## Certificate of Analysis

**Catalogue Number** 03155  
**Lot Number** 1679-01-04-04A  
**Product** **L-Tyrosine amide hydrochloride**

L-Tyr-NH<sub>2</sub>•HCl

**CAS Number** 53559-18-5  
**Molecular Formula** C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>•HCl

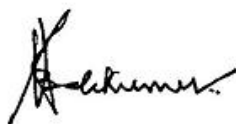
**Molecular Weight** 216.7

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**Appearance** Off-white powder  
**Solubility** Clear, colorless solution (50 mg/ml in methanol)  
**Water Content (Karl Fisher)** 7.7%  
**TLC System** n-Butanol/Acetic acid/Water (2:1:1)  
Chloroform/Methanol/Acetic acid 32% (5:3:1)  
Ethyl acetate/Pyridine/Acetic acid/H<sub>2</sub>O(60:10:3:4)  
Detected by UV, Ninhydrin  
**Optical Rotation** [α]<sub>D</sub><sup>24</sup> = +28.6 ° (C=1% in Ethanol 80%)  
**Related Substances** < 0.2% H-Tyr-OH  
**Titration** Chloride Content: 14.8% (AgNO<sub>3</sub>)  
**Purity by TLC** > 98%  
**Storage** Store at 0-8°C

**Remarks** See material safety data sheet for additional information  
For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager