## Chem-Impex International, Inc.

Tel: (630) 766-2112 Fax: (630) 766-2218

E-mail: sales@chemimpex.com Web site: www.chemimpex.com

**Shipping and Correspondence:** 

**Manufacturing site:** 935 Dillon Drive 825 Dillon Drive Wood Dale, IL 60191 Wood Dale, IL 60191

## Certificate of Analysis

04441 **Catalogue Number** 

000424-140310-13308 **Lot Number** 

L-Phenylalanine allyl ester 4-toluenesulfonate **Product** 

salt

L-Phe-OAll•TosOH

88224-00-4 **CAS Number** 

 $C_{12}H_{15}NO_2 \cdot C_7H_8O_3S$ **Molecular Formula** 

**Molecular Weight** 377.5

White powder **Appearance** 

157.3-158.6 °C **Melting Point** 

**Water Content (Karl** 

Fisher)

 $[a]_{D^{20}} = +11.4^{\circ} (C=1 \text{ in DMF})$ **Optical Rotation** 

0.081%

**Infrared Spectrum** Conforms to standard Conforms to standard **Analysis by Mass Spectra** 

**Loss on Drying** 0.66% (70 °C, 2h)

<sup>1</sup>H NMR Conforms to structure

**Purity by HPLC** 98.13%

Store at 0-8 °C Storage

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**