

# 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

---

## Certificate of Analysis

<b>Catalogue Number</b>	12029
<b>Lot Number</b>	5432
<b>Product</b>	<b>DL-Serine benzyl ester 4-toluenesulfonate salt</b>  DL-Ser-OBzl•TosOH  DL-β-Hydroxyalanine benzyl ester 4-toluenesulfonate salt
<b>CAS Number</b>	222739-29-9
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>21</sub> NO <sub>6</sub> S
<b>Molecular Weight</b>	367.4

---

<b>Appearance</b>	White powder
<b>Melting Point</b>	100-103 °C
<b>Assay by titration</b>	100.4%
<b>Purity by HPLC</b>	99.5%
<b>Purity by TLC</b>	Conforms to reference; <0.25% H-Ser-OH
<b>Storage</b>	Store at 0-8°C
<b>Remarks</b>	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