



# INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: [www.indofinechemical.com](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## *Certificate of Analysis*

Catalogue Number 04-2433  
Product **D-Serine benzyl ester hydrochloride**

Lot Number 130302-16217  
D-Ser-OBzl•HCl  
D-β-Hydroxyalanine benzyl ester hydrochloride

CAS Number 151651-44-4  
Molecular Formula  $C_{10}H_{13}NO_3 \cdot HCl$

Molecular Weight 231.72

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Appearance White powder  
Solubility Clear solution (0.3g in 2 mL H<sub>2</sub>O)  
Melting Point 171.5-172.1 °C  
Water Content (Karl Fisher) 0.061%  
Optical Rotation  $[\alpha]_D^{20} = +11.52^\circ$  (C=2 in H<sub>2</sub>O)  
Infrared Spectrum Conforms to structure  
Analysis by Mass Spectra Conforms to structure  
Loss on Drying 0.193% (80 °C, 2h)  
<sup>1</sup>H NMR Conforms to structure  
Purity by HPLC 99.57%  
Storage Store at 0-8°C