

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

Catalogue Number	05596
Lot Number	000424-230604-21139
Product	Boc-L-pyroglutamic acid Boc-L-Pyr-OH Boc-(S)-2-pyrrolidinone-5-carboxylic acid
CAS Number	53100-44-0
Molecular Formula	C ₁₀ H ₁₅ NO ₅
Molecular Weight	229.24

Appearance	White powder
Solubility	Clear solution (0.3 g in 5 mL MeOH)
Melting Point	117.3 - 118.5 °C
Water Content (Karl Fisher)	0.36%
Optical Rotation	[α] _D ²⁰ = -35.7 ° (C=1 in CHCl ₃)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.85% (45 °C, 2h)
¹H NMR	Conforms to structure
Purity by HPLC	99.96%
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