

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 17170
Lot Number (S)B3MOC20090703
Product **(S)-4-Boc-morpholine-3-carboxylic acid**

(S)-Morpholine-3,4-dicarboxylic acid 4-*tert*-butyl ester

CAS Number 783350-37-8
Molecular Formula C₁₀H₁₇NO₅
Molecular Weight 231.25

Appearance White solid
Optical Rotation [α]_D²⁰ = -78.7° (C=1, MeOH)
¹³C NMR Conforms to structure
¹H NMR Conforms to structure
Purity > 98% (NMR)
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