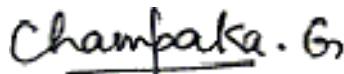


Certificate of Analysis

Product Name : N-Boc-(S)-(-)-2-amino-1-butanol 96%
Product Number : 660116-BULK
Batch Number : 0000044197
CAS Number : 150736-72-4
Molecular Formula : C₉H₁₉NO₃
Formula Weight : 189.25
Quality Release Date : 29 Sep 2018

Test	Specification	Result
Appearance (Color)	Conforms to Requirements	Light Yellow
White to Brown		
Yellow to Orange to Brown		
Appearance (Form)	Conforms to Requirements	Solid
Liquid to Solid, Crystals or Crystalline Powder, and/or Chunks		
Infrared Spectrum	Conforms to Structure	Conforms
Carbon	54.5 - 59.7 %	56.9 %
Nitrogen	7.0 - 7.7 %	7.2 %
Optical Rotation	-31.0 - -23.0 deg	-27.7 deg
Degrees (C=1%, CHCl ₃)		
Purity (GC)	≥ 95.5 %	98.7 %



Champaka Gurudevaru, Manager
 Analytical
 Bangalore
 IN

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale