Chem-Impex International, Inc.

Tel: (630) 766-2112 Fax: (630) 766-2218

E-mail: sales@chemimpex.com Web site: www.chemimpex.com

Shipping and Correspondence:935 Dillon Drive
825 Dillon Drive

Wood Dale, IL 60191 Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number 01403

Lot Number 000424-140324-10922

Product L-Glutamic acid γ-tert-butyl ester

L-Glu(OtBu)-OH

L-Glutamic acid 5-tert-butyl ester

CAS Number 2419-56-9 Molecular Formula C₉H₁₇NO₄

Molecular Weight 203.2

Appearance White powder

Solubility Clear solution (0.3 g in 2 mL AcOH)

0.566%

Melting Point 171.0-172.5 °C

Water Content (Karl

Fisher)

Optical Rotation [a]_D²⁰ = +20.3° (C=1 in AcOH)

Infrared Spectrum Conforms to structure
Analysis by Mass Spectra Conforms to standard

Loss on Drying

1.22% (70 °C, 2h)

1H NMR

Conforms to structure

¹H NMR Conforms
Purity by HPLC 99.03%

Purity by TLC >98%

Storage Store at 0-8 °C

Certificate of Analysis

Catalog Number: 01403 Lot Number: 000424-140324-10922

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