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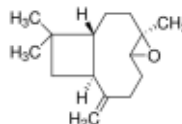
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

(-)-Caryophyllene oxide - 95%

Product Number: W509647
Batch Number: MKCB6258
Brand: ALDRICH
CAS Number: 1139-30-6
Formula: C₁₅H₂₄O
Formula Weight: 220.35 g/mol
Quality Release Date: 03 NOV 2016
Expiration Date: OCT 2021



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Initial Melting Point	≥ 53.0 °C	60.2 °C
Final Melting Point	≤ 64.0 °C	63.9 °C
Infrared Spectrum	Conforms to Structure	Conforms
Optical Rotation c = 2%, CHCl ₃	-75.0 - -58.0 deg	-70.5 deg
Purity (GC)	≥ 94.0 %	96.9 %
Solubility (Turbidity)	Clear	Clear
Solubility (Color) c = 10%, CHCl ₃	Colorless	Colorless
Arsenic (As)	≤ 3.0 ppm	< 0.3 ppm
Cadmium (Cd)	≤ 1.0 ppm	< 0.1 ppm
Mercury (Hg)	≤ 1.0 ppm	0.3 ppm
Lead (Pb)	≤ 10.0 ppm	< 0.1 ppm
Expiration Date Period 5 Years	-----	-----

Michael Grady, Manager
 Quality Control
 Milwaukee, WI US

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. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.