

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

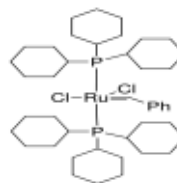
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Grubbs Catalyst® M1a (C823) - Umicore, 97%

Product Number: 579726
Batch Number: MKCL3140
Brand: ALDRICH
CAS Number: 172222-30-9
MDL Number: MFCD01090946
Formula: C43H72Cl2P2Ru
Formula Weight: 822.96 g/mol
Storage Temperature: Store at 2 - 8 °C
Quality Release Date: 05 NOV 2019



Test	Specification	Result
Appearance (Color) Purple or Violet	Conforms to Requirements	Very Dark Purple
Appearance (Form)	Powder	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Phosphorus NMR Spectrum	Conforms to Structure	Conforms
Carbon	60.6 - 64.9 %	62.4 %

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.