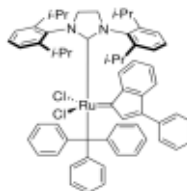


Certificate of Analysis

Product Name:

Grubbs Catalyst® M201 - Umicore

Product Number: 775274
Batch Number: MKCM9623
 Brand: ALDRICH
 CAS Number: 1307233-23-3
 Formula: C₆₀H₆₃Cl₂N₂PRu
 Formula Weight: 1,015.11 g/mol
 Storage Temperature: Store at 2 - 8 °C
 Quality Release Date: 11 AUG 2020



Test	Specification	Result
Appearance (Color)	Dark Orange to Very Dark Orange and Light Brown to Very Dark Brown and Orange-Brown and Brown-Orange and Very Dark Red Brown	Very Dark Red-Brown
Appearance (Form)	Powder or Crystals	Powder
Proton NMR Spectrum	Conforms to Structure	Conforms
Carbon		70.5 %
Specification: Report Results		
Nitrogen		2.5 %
Specification: Report Results		
ICP Major Analysis	Confirmed	Confirmed
Confirms Ru Component		
Product of Supplier	Confirmed	Confirmed
Umicore		

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.

