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## Certificate of Analysis

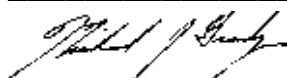
Product Name:

Ruthenium(III) chloride - Ru content 45-55%

**Product Number:** 208523  
**Batch Number:** MKCL5683  
**Brand:** ALDRICH  
**CAS Number:** 10049-08-8  
**MDL Number:** MFCD00011208  
**Formula:** Cl<sub>3</sub>Ru  
**Formula Weight:** 207.43 g/mol  
**Quality Release Date:** 17 DEC 2019



Test	Specification	Result
Appearance (Color)	Black	Black
Appearance (Form) Crystals, Powder, Granules, and/or Chunks	Conforms to Requirements	Crystals
Gravimetric Analysis % Ru After Reduction with Mg	45.0 - 55.0 %	47.3 %
ICP Major Analysis Confirms Ru Component	Confirmed	Conforms
Insoluble Matter Typically < 20%		0.1 %



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.