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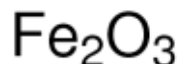
Outside USA: eurtechserv@sial.com

Product Name:

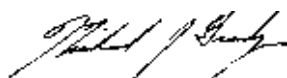
# Certificate of Analysis

Iron(III) oxide -  $\geq 99.995\%$  trace metals basis

**Product Number:** 529311  
**Batch Number:** MKCD7540  
**Brand:** ALDRICH  
**CAS Number:** 1309-37-1  
**MDL Number:** MFCD00011008  
**Formula:** Fe<sub>2</sub>O<sub>3</sub>  
**Formula Weight:** 159.69 g/mol  
**Quality Release Date:** 04 AUG 2017



Test	Specification	Result
Appearance (Color) Red-Brown, Burgundy or Purple	Conforms to Requirements	Very Dark Red
Appearance (Form)	Powder	Powder
Titration by Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> % Iron	68.2 - 71.7 %	69.7 %
ICP Major Analysis Confirms Iron Component	Confirmed	Confirmed
Purity >= 99.995% Based On Trace Metals Analysis	Meets Requirements	Meets Requirements
Trace Metal Analysis	≤ 50.0 ppm	10.8 ppm
Silver (Ag)		2.6 ppm
Barium (Ba)		0.2 ppm
Copper (Cu)		0.2 ppm
Sodium (Na)		0.7 ppm
Lead (Pb)		3.5 ppm
Platinum (Pt)		2.1 ppm
Zirconium (Zr)		1.5 ppm



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.