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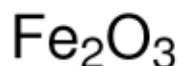
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## Certificate of Analysis

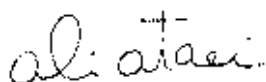
Product Name:

Iron(III) oxide - nanopowder, <50 nm particle size (BET)

**Product Number:** 544884  
**Batch Number:** MKBT9469V  
**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:** 02 MAR 2015



Test	Specification	Result
Appearance (Color) Red-Brown to Brown	Conforms to Requirements	Brown
Appearance (Form)	Powder	Powder
X-Ray Diffraction	Conforms to Structure	Conforms
Titration by Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> % Fe	68.2 - 71.7 %	69.9 %
Size	≤ 50 nm	35 nm



Ali Ataei, 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.