

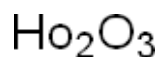
3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Product Specification

Product Name:  
Holmium(III) oxide - nanopowder, <100 nm avg. part. size (DLS), ≥99.9% trace metals basis

**Product Number:** 637327  
**CAS Number:** 12055-62-8  
**MDL:** MFCD00011053  
**Formula:** Ho<sub>2</sub>O<sub>3</sub>  
**Formula Weight:** 377.86 AMU



TEST	Specification
Appearance (Color)	Conforms to Requirements
Light Orange to Light Red	
Appearance (Form)	Powder
ICP Major Analysis	Confirmed
Confirms Holmium Component	
ICP Major Analysis	≤ 1000.0 ppm
PPM Rare Earth Impurities	
ICP Major Analysis (% Purity)	≥ 99.90 %
% Purity Based On Trace Rare Earth Analysis	
Particle Size	< 100 nm
(DLS)	
Size	≤ 50
(XRD), nm	

Specification: PRD.1.ZQ5.10000031296

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](http://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.