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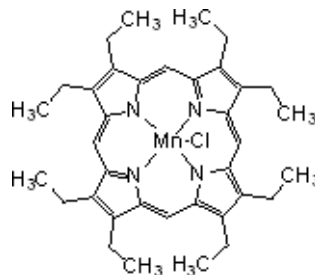
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

2,3,7,8,12,13,17,18-Octaethyl-21H,23H-porphine manganese(III) chloride - 97%

Product Number: 257575
Batch Number: MKBP2383V
Brand: ALDRICH
CAS Number: 28265-17-0
MDL Number: MFCD00074839
Formula: C₃₆H₄₄ClMnN₄
Formula Weight: 623.15 g/mol
Quality Release Date: 01 MAY 2013



Test	Specification	Result
Appearance (Color)	Brown to Black	Brown-black
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms to Structure	Conforms
Wavelength	456 - 462 nm	458 nm
Extinction Coefficient	≥ 50000	57521
Wavelength	362 - 368 nm	366 nm
Extinction Coefficient	≥ 80000	84477
C = 0.006g/l, Methanol		
Carbon	67.0 - 71.8 %	69.6 %
Nitrogen	8.6 - 9.3 %	9.0 %
Purity (HPLC)	≥ 96.5 %	97.6 %

Jamie Gleason, Manager
 Quality Control
 Milwaukee, Wisconsin 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.