

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaldrich.com

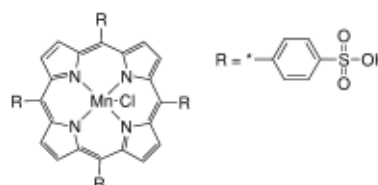
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

## Product Specification

Product Name:  
5,10,15,20-Tetrakis(4-sulfonatophenyl)-21H,23H-porphine manganese(III) chloride - Dye content 70 %

Product Number: **441813**  
 CAS Number: 90587-86-3  
 MDL: MFCD00216662  
 Formula: C<sub>44</sub>H<sub>28</sub>ClMnN<sub>4</sub>O<sub>12</sub>S<sub>4</sub>  
 Formula Weight: 1,023.36 g/mol



TEST	Specification
Appearance (Color)	Black
Appearance (Form)	Powder or Crystals
Infrared spectrum	Conforms to Structure
Wavelength	463 - 469 nm
C= 0.01 G/L Water	
Extinction Coefficient	≥ 70000
Wavelength	397 - 403 nm
Extinction Coefficient	≥ 43000
Wavelength	376 - 382 nm
Extinction Coefficient	≥ 42000
In Water	
Carbon	35.1 - 71.3 %
Nitrogen	3.7 - 7.5 %

Specification: PRD.0.ZQ5.10000022765

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.