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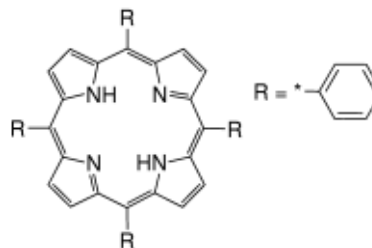
Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:

5,10,15,20-Tetraphenyl-21H,23H-porphine - ≥99%

**Product Number:** 247367  
**Lot Number:** MKBH6920V  
**Brand:** SIAL  
**CAS Number:** 917-23-7  
**MDL Number:** MFCD00011680  
**Formula:** C<sub>44</sub>H<sub>30</sub>N<sub>4</sub>  
**Formula Weight:** 614.74 g/mol  
**Quality Release Date:** 10 OCT 2011



Test	Specification	Result
Appearance (Color)	Purple to Black	Very Dark Purple
Appearance (Form)	Crystalline Powder	Crystalline Powder
Infrared spectrum	Conforms to Structure	Conforms
Assay	≤ 0.1 %	0.0 %
c = 0.03g/l in Toluene		
Purity (HPLC)	≥ 99.0 %	99.5 %

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.