

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

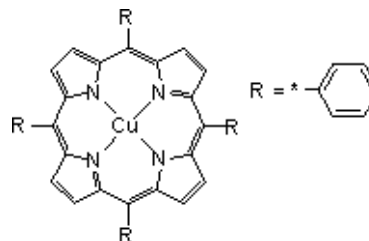
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

5,10,15,20-Tetraphenyl-21H,23H-porphine copper(II)

Product Number: 252182
Lot Number: MKBF7512
Brand: ALDRICH
CAS Number: 14172-91-9
MDL Number: MFCD00148862
Formula: C₄₄H₂₈CuN₄
Formula Weight: 676.27 g/mol
Quality Release Date: 19 JAN 2011



Test	Specification	Result
Appearance (Color)	Purple	Purple
Appearance (Form)	Powder or Crystals	Crystals
Infrared spectrum	Conforms to Structure	Conforms
Wavelength	414 - 420 nm	418 nm
Extinction Coefficient	≥ 390000	462701
$c = 0.001\text{g/l}$, Toluene Purity (HPLC) Typically > = 90%		99.5 %
Carbon	75.8 - 80.5 %	79.3 %
Nitrogen	7.5 - 8.5 %	8.4 %

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.