

# Certificate of Analysis

SIGMA-ALDRICH

**Product Name** Copper(II) phthalocyanine,  
Dye content >99 %  
**Product Number** 546682  
**Product Brand** ALDRICH  
**CAS Number** [147-14-8](#)  
**Molecular Formula** C<sub>32</sub>H<sub>16</sub>CuN<sub>8</sub>  
**Molecular Weight** 576.07  
**Storage Temp** room temp

TEST	SPECIFICATION	LOT 43096LH RESULTS
APPEARANCE	BLUE TO PURPLE POWDER, NEEDLES OR CRYSTALS	PURPLE POWDER
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE.
UV-VISIBLE SPECTRUM	0.005 G/L, CHLORONAPHTHALENE E(678 +/-3)NM = 30,000 (MINIMUM)	0.005 G/L, CHLORONAPHTHALENE E678NM=31,800
ELEMENTAL ANALYSIS	CARBON 66.0%-67.4% NITROGEN 19.2%-19.6%	CARBON 66.57% NITROGEN 19.59%
TITRATION		0.07% CL(WITH AGNO3 AFTER OXYGEN COMBUSTION)
TITRATION	1.0% H2O (MAXIMUM)	0.09% H2O (WITH "KARL FISCHER" REAGENT)
ICP ASSAY	CONFIRMS CU COMPONENT	CONFIRMS CU COMPONENT
TRACE ANALYSIS, ICP	REPORT TRACE METALS FOUND	TRACE METAL IMPURITIES IN PPM: FE 34 NI 8.9
QC RELEASE DATE		NOVEMBER 2007



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