

Certificate of Analysis

Date of Testing: 2025-09-11 11:22:47

Date of Next Testing: 2029-09-10 11:22:47

Product Name: 4,4',4'',4'''-(Porphine-5,10,15,20-tetrayl) tetrakis(benzoic acid)(TCPP)

CAS Number: 14609-54-2

Specifications & Purity: $\geq 97\%$

Lot #: I2504679

SKU # P115336

Version 1

Analysis #: 555182

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	97.84900 %
Purity(Neutralization titration)	96.5-103.5 (%)	96.55 %
Appearance (P115336)	Dark Blue to Purple to Black Powder to Crystal	Dark Blue to Purple to Black Powder to Crystal
NMR (1H-NMR)	complies	complies
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager