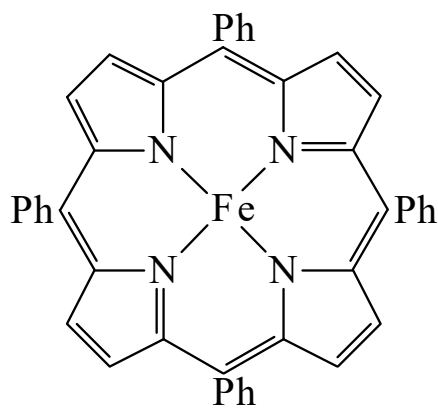




>>Entry Name: Tetraphenylporphyrinatoiron(II)

Synonym(s): [5,10,15,20-Tetraphenyl-21*H*,23*H*-porphinato(2-)-*N*²¹,*N*²²,*N*²³,*N*²⁴]iron, 11Cl



CAS Registry Number: 16591-56-3

Molecular Formula: C₄₄H₂₈FeN₄

Molecular Weight: 668.579

Accurate Mass: 668.166335

Percentage Composition: C 79.05%; H 4.22%; Fe 8.35%; N 8.38%

Source/Synthesis: Obt. by reduction of Fe(tpp)Cl

Use/Importance: Stable, readily available Fe porphyrin. Binds CO and other small molecules in axial sites. Electrode modification catalyst

Physical Description: Purple-blue cryst.; air-sensitive in non-coordinating solvs.

Other Data: $\mu_{\text{eff}} = 4.4\mu_{\text{B}}$, $S = 1$. Sublimes

>>Derivative: 2-Methylimidazole complex

>>Derivative: Bis-Py complex

>>Derivative: Bis-piperidine complex

References:

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