

Iron tetraphenylporphyrin

Other names:	Iron, [5,10,15,20-tetraphenyl-21H,23H-porphinato(2-)-N21,N22,N23,N24]-, (SP-4-1)- Iron, [5,10,15,20-tetraphenylporphinato(2-)]- [«alpha», «beta», «gamma», «delta»-Tetraphenylporphyrinato(2-)]iron [5,10,15,20-Tetraphenylporphinato(2-)]iron Iron (II) tetraphenylprophyrin Iron tetraphenylporphine Tetraphenylporphineiron(II)
Inchi:	InChI=1S/C44H28N4.Fe/c1-5-13-29(14-6-1)41-33-21-23-35(45-33)42(30-15-7-2-8-16-30)
InchiKey:	ZWYCMWUUWAFXIA-DAJBKUBHSA-N
Formula:	C44H28FeN4
SMILES:	C1=Cc2nc1c(-c1cccc1)c1ccc([n-]1)c(-c1cccc1)c1nc(c(-c3cccc3)c3ccc([n-]3)c2-c2cccc
Mol. weight [g/mol]:	668.57
CAS:	16591-56-3

Physical Properties

Property code	Value	Unit	Source
ea	1.87 ± 0.03	eV	NIST Webbook
ie	6.50	eV	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C16591563&Units=SI>

Legend

ea: Electron affinity
ie: Ionization energy

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<https://www.cheméo.com/cid/79-947-4/Iron-tetraphenylporphyrin.pdf>

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