Nickel tetraphenylporphyrin

Other names:	(meso-Tetraphenylporphinato)nickel
	21H,23H-Porphine, 5,10,15,20-tetraphenyl-, nickel complex
	Nickel meso-tetraphenylporphine
	Nickel tetraphenylporphine
	Nickel(II) 5,10,15,20-tetraphenylporphine
	Nickel(II) meso-tetraphenylporphine
	Nickel(II) tetraphenylphorphyrin
	Nickel, [5,10,15,20-tetraphenyl-21H,23H-porphinato(2-)-N21,N22,N23,N24]-, (SP-4-1)-
	Nickel, [5,10,15,20-tetraphenylporphinato(2-)]-
	Tetraphenylporphine nickel complex
	[5,10,15,20-Tetraphenylporphinato(2-)]nickel
	[meso-Tetraphenylporphinato(2-)]nickel
Inchi:	InChI=1S/C44H28N4.Ni/c1-5-13-29(14-6-1)41-33-21-23-35(45-33)42(30-15-7-2-8-16-30)
InchiKey:	QJFZOVVQYZDMOR-DAJBKUBHSA-N
Formula:	C44H28N4Ni
SMILES:	C1=CC2=C(c3ccccc3)C3=NC(=C(c4ccccc4)C4=NC(=C(c5ccccc5)C5=NC(=C(c6ccccc6)
Mol. weight [g/mol]:	671.41
CAS:	14172-92-0

Physical Properties

Property code	Value	Unit	Source
ea	1.51 ± 0.10	eV	NIST Webbook
ie	6.30 ± 0.20	eV	NIST Webbook
ie	6.44	eV	NIST Webbook
tf	760.10	K	Study of the stability of 5,10,15,20-tetraphenylporphine (TPP) and metalloporphyrins NiTPP, CoTPP, CuTPP, and ZnTPP by differential scanning calorimetry and thermogravimetry

Sources

Study of the stability of 5,10,15,20-tetraphenylporphine (TPP) and metalloporphyrins NiTPP, CoTPP, CuTPP, and ZnTPP by differential scanning calorimetry and thermogravimetry:	https://www.doi.org/10.1016/j.jct.2009.12.007

Legend

ea:	Electron affinity
ie:	Ionization energy
tf:	Normal melting (fusion) point

Latest version available from:

https://www.chemeo.com/cid/22-875-6/Nickel-tetraphenylporphyrin.pdf

Generated by Cheméo on 2024-10-12 04:29:38.342826949 +0000 UTC m=+3288240.979796198.

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.