

# Nickel tetraphenylporphyrin

<b>Other names:</b>	(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
<b>Inchi:</b>	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)
<b>InchiKey:</b>	QJFZOVVQYZDMOR-DAJBKUBHSA-N
<b>Formula:</b>	C44H28N4Ni
<b>SMILES:</b>	C1=CC2=C(c3ccccc3)C3=NC(=C(c4ccccc4)C4=NC(=C(c5ccccc5)C5=NC(=C(c6ccccc6)
<b>Mol. weight [g/mol]:</b>	671.41
<b>CAS:</b>	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

<b>ea:</b>	Electron affinity
<b>ie:</b>	Ionization energy
<b>tf:</b>	Normal melting (fusion) point

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