# 21H,23H-Porphin,5,10,15,20-tetrakis(4-methylpher

**Inchi:** InChI=1S/C48H38N4/c1-29-5-13-33(14-6-29)45-37-21-23-39(49-37)46(34-15-7-30(2)8-1
**InchiKey:** SFQNUQLWBBZIOZ-PJEPRTEXSA-N
**Formula:** C48H38N4
**SMILES:** Cc1ccc(-c2c3nc(c(-c4ccc(C)cc4)c4ccc([nH]4)c(-c4ccc(C)cc4)c4nc(c(-c5ccc(C)cc5)c5ccc2
**Mol. weight [g/mol]:** 670.84
**CAS:** 14527-51-6

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| chs | -24797.80 ± 8.10 | kJ/mol | NIST Webbook |
| hfs | 479.00 ± 10.00 | kJ/mol | NIST Webbook |
| hsub | 260.40 | kJ/mol | NIST Webbook |
| log10ws | -19.41 | | Crippen Method |
| logp | 11.593 | | Crippen Method |
| mcvol | 530.460 | ml/mol | McGowan Method |

## Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C14527516&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

## Legend

**chs:** Standard solid enthalpy of combustion
**hfs:** Solid phase enthalpy of formation at standard conditions
**hsub:** Enthalpy of sublimation at standard conditions
**log10ws:** Log10 of Water solubility in mol/l
**logp:** Octanol/Water partition coefficient
**mcvol:** McGowan's characteristic volume