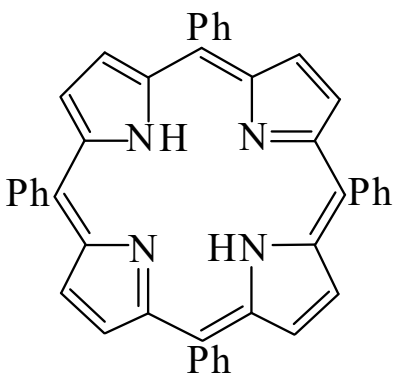
>>**Entry Name: *meso*-Tetraphenylporphyrin,** 9CI

Synonym(s): α,β,γ,δ-Tetraphenylporphine. 5,10,15,20-Tetraphenyl-21*H*,23*H*-porphine



CAS Registry Number: 917-23-7
Extra CAS Registry Numbers(s): 20998-75-8

Molecular Formula: $C_{44}H_{30}N_4$
Molecular Weight: 614.748
Accurate Mass: 614.247046
Percentage Composition: C 85.97%; H 4.92%; N 9.11%
Source/Synthesis: Prepd. by the condensation of Benzaldehyde JTN76-J with Pyrrole JVF90-J
Use/Importance: Used as 0.05m*M* soln. in glac. AcOH for photometric detn. of Cu(*II*) (λ_{max} 414nm, ε 470000), Zn
Physical Description: Deep-purple prisms (CH_2Cl_2/MeOH)
Melting Point: Mp 240°. Mp 300°
Solubility: Sol. $CHCl_3$, C_6H_6, DMF; sl. sol. AcOH; insol. EtOH
Other Data: Normally obt. contaminated with 8-10% of Chlorin which can be removed by oxidn. with 2,3-Dichloro-5,6-dicyano-1,4-benzoquinone FRS00-B

Aldrich: 16099-7
Fluka: 88071
Rare Chemicals Library: S6014-4
Sigma: T9016

References:

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