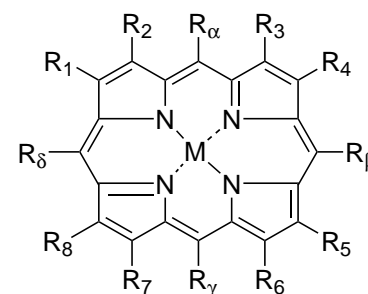


METALLOPORPHYRINS

Metalloporphyrins, which include such important complexes as chlorophyll, heme of the blood, and others, represent a vast and unique group of intercomplex compounds. By varying the choice of the metal center, the bonding and characteristics of the metalloporphyrin may be dramatically affected. This great diversity is one reason why metalloporphyrins have been widely used in the production of dyes, semiconductors, and catalysts, as well as in numerous studies spanning the chemical and biological fields.¹

Aldrich offers a wide variety of both metalloporphyrins and porphyrin ligands for use in your research. Below is a listing of some recent uses for these materials. If the compound you require is not listed here, or you would like to request a copy of the *Aldrich Dyes, Indicators, & Intermediates Catalog* or our *NEW Inorganics and Organometallics Catalog/Handbook*, please call our Technical Services Department at 1-800-231-8327 or visit our Website at www.sial.com/aldrich.



Metalloporphyrins

- 27,586-7 5,10,15,20-Tetrakis(4-methoxyphenyl)-21H,23H-porphine cobalt(II), synthetic** **1g; 10g**
- Starting material in the synthesis of cobalt nitrosyl porphyrins for use in the study of the binding and activation of nitric oxide.^{2,3}
 - Acts as a versatile catalyst during the oxidation of a wide range of organic substrates with dioxygen in the presence of 2-methylpropanal under ambient conditions.⁴
- 25,907-1 5,10,15,20-Tetraphenyl-21H,23H-porphine iron(III) chloride, synthetic** **100mg; 500mg; 5g**
- Effective catalyst for the silylation of hydroxyl groups with hexamethyldisilazane at room temperature.⁵
- 25,219-0 5,10,15,20-Tetraphenyl-21H,23H-porphine cobalt(II), synthetic** **100mg; 500mg; 5g**
- Used in the decomposition of substituted cycloheptatriene endoperoxides in the synthesis of unsymmetrically substituted dihydrooxepines.⁶
- 25,291-3 5,10,15,20-Tetrakis(pentafluorophenyl)-21H,23H-porphine iron(III) chloride, synthetic** **25mg; 100mg**
- Preferred catalyst in catalytic oxygenation reactions.^{7,8}
- 36,371-5 2,3,7,8,12,13,17,18-Octaethyl-21H,23H-porphine vanadium(IV) oxide, 95%** **100mg; 500mg**
- Starting material in the preparation of the π -cation radical derivative $[\text{VO}(\text{OH})_2(\text{OEP}^{\bullet})]\text{SbCl}_6$.⁹
- 47,993-4 2-Nitro-5,10,15,20-tetraphenyl-21H,23H-porphine copper(II), 95%** **250mg**
- NEW!**
- Versatile starting material for the introduction of new functionality at the β -pyrrolic positions of the porphyrin ring, most recently in the syntheses of 2-amino-3-nitroporphyrins,¹⁰ functionalized *trans*-chlorins,¹¹ and 2-alkylporphyrins.¹²
- 45,301-3 Zinc 5,10,15,20-tetra(4-pyridyl)-21H,23H-porphine tetrakis(methochloride)** **100mg; 500mg**
- NEW!**

Porphyrin Ligands

- 25,288-3 5,10,15,20-Tetrakis(4-methoxyphenyl)-21H,23H-porphine** **1g; 5g**
- 25,240-9 2,3,7,8,12,13,17,18-Octaethyl-21H,23H-porphine, 97%** **100mg ; 1g; 5g**
- 16,099-7 5,10,15,20-Tetraphenyl-21H,23H-porphine** **1g ; 5g; 25g**
- 25,292-1 5,10,15,20-Tetrakis(pentafluorophenyl)-21H,23H-porphine, synthetic** **25mg; 100mg; 1g**
- 25,761-3 5,10,15,20-Tetra(4-pyridyl)-21H,23H-porphine, synthetic, 97%** **250mg; 1g; 5g**
- 47,756-7 5,10,15,20-Tetrakis(4-hydroxyphenyl)-21H,23H-porphine, 95%** **250mg; 1g**
- NEW!**
- 47,452-5 5,10,15,20-Tetrakis[4-(allyloxy)phenyl]-21H,23H-porphine, 98%** **250mg; 1g**
- NEW!**

References

- (1) Berezin, B.D. *Coordination Compounds of Porphyrins and Phthalocyanines*; John Wiley & Sons: Chichester: U.K. 1981. (2) Richter-Addo, G.B. et al. *Inorg. Chem.* **1996**, *35*, 6530. (3) Kini, A.D. et al. *ibid.* **1996**, *35*, 6904. (4) Mandal, A.K.; Iqbal, J. *Tetrahedron* **1997**, *53*, 7641. (5) Firouzabadi, H. et al. *Synth. Commun.* **1997**, *27*, 2709. (6) Sengül, M.E.; Balci, M. *J. Chem. Soc., Perkin Trans. 1* **1997**, 2071. (7) Lee, K.A.; Nam, W. *J. Am. Chem. Soc.* **1997**, *119*, 1916. (8) Kamaraj, K.; Bandyopadhyay, D. *ibid.* **1997**, *119*, 8099. (9) Schulz, C.E. et al. *ibid.* **1994**, *116*, 7196. (10) Crossley, M.J. et al. *J. Chem. Soc., Perkin Trans. 1* **1996**, 2675. (11) Jaquinod, L. et al. *Chem. Commun.* **1996**, 2581. (12) Crossley, M.J. et al. *J. Org. Chem.* **1994**, *59*, 4433.



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