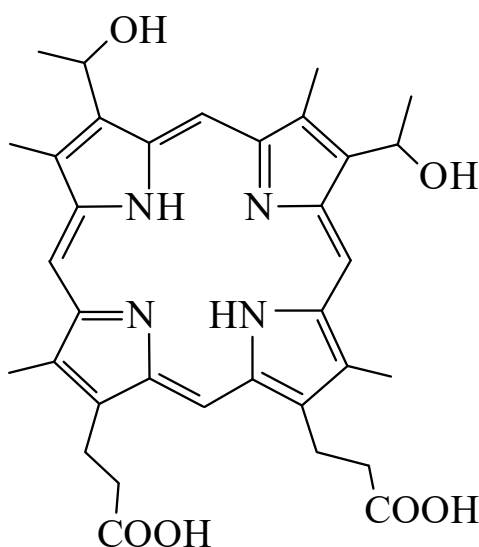




>>Entry Name: Haematoporphyrin

Synonym(s): Haematoporphyrin IX. Hematoporphyrin



CAS Registry Number: 14459-29-1

Related CAS Registry Numbers(s): 17696-69-4

Molecular Formula: C₃₄H₃₈N₄O₆

Molecular Weight: 598.697

Accurate Mass: 598.279136

Percentage Composition: C 68.21%; H 6.40%; N 9.36%; O 16.03%

Biological Source: Obt. from Haemin or Haematin, (see Haemin [JVW10-S](#)) by removal of Fe with conc. acids. Isol. from a *Chlorella vulgaris* mutant

Use/Importance: Antidepressant. Treatment of haematoporphyrin with H₂SO₄/AcOH followed by NaOH yields a complex mixt. of ester, ether and C-C linked dimers and trimers known as HPD, which is used as a photosensitiser for photodynamic tumour therapy (PDT)

Physical Description: Purple cryst. (Et₂O/AcOH)

Calculated Log P Data: Log P 4.75 (calc)

Other Data: Use limited by chemical instability

Hazard & Toxicity: LD₅₀ (mus, ivn) 307 mg/kg

Aldrich: 25832-6

Fluka: 51240

Sigma: H7253

>>Derivative: Di-Me ester

CAS Registry Number: 32562-61-1

Molecular Formula: C₃₆H₄₂N₄O₆

Molecular Weight: 626.751

Accurate Mass: 626.310436

Percentage Composition: C 68.99%; H 6.75%; N 8.94%; O 15.32%

Physical Description: Violet cryst. (CHCl₃/MeOH)

Melting Point: Mp 212°

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