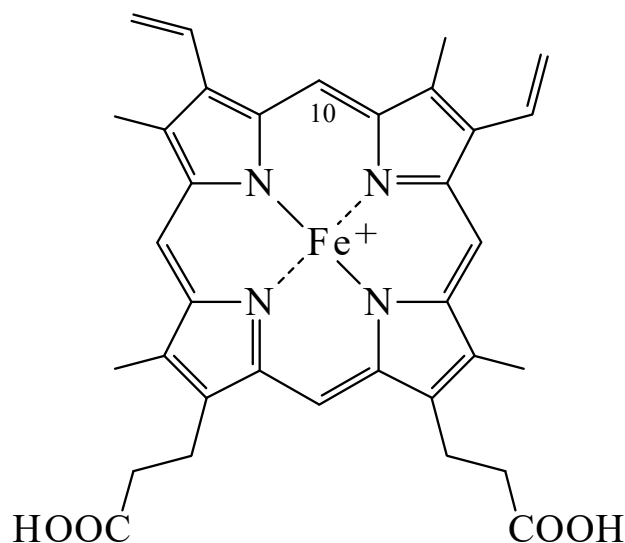




>>Entry Name: Haemin

Synonym(s): Protoporphyrin iron(III) complex. Hemin. Protoferrihaem



CAS Registry Number: 16009-13-5

Related CAS Registry Numbers(s): 15741-03-4

Extra CAS Registry Numbers(s): 15489-47-1

Molecular Formula: C₃₄H₃₂FeN₄O₄⁽⁺⁾

Molecular Weight: 616.498

Accurate Mass: 616.177295

Percentage Composition: C 66.24%; H 5.23%; Fe 9.06%; N 9.09%; O 10.38%

Aldrich: 85856-0

Fluka: 51280

Sigma: H2375

>>Derivative: Chloride

Synonym(s): Chlorohemin. Ferriheme chloride. Ferriprotoporphyrin IX chloride. Haemin IX. Hemin IX

Molecular Formula: C₃₄H₃₂ClFeN₄O₄

Molecular Weight: 651.951

Accurate Mass: 651.146147

Percentage Composition: C 62.64%; H 4.95%; Cl 5.44%; Fe 8.57%; N 8.59%; O 9.82%

Biological Source: Obt. from blood by heating with AcOH and NaCl soln. in air

Use/Importance: Commercially available

Physical Description: Deep-violet cryst.

Other Data: Dec. >200°. Square pyramidal at Fe

>>Derivative: Chloride, di-Me ester

Synonym(s): Haemin ester

CAS Registry Number: 13101-78-5

Molecular Formula: C₃₆H₃₆ClFeN₄O₄

Molecular Weight: 680.004

Accurate Mass: 679.177447

Percentage Composition: C 63.59%; H 5.34%; Cl 5.21%; Fe 8.21%; N 8.24%; O 9.41%

Physical Description: Purple cryst. (CHCl₃/MeOH). Photodegrades in presence of O₂; reasonably light stable in its absence. Hydrol. in aq. acid

Solubility: Sol. CH₂Cl₂, CHCl₃

>>Derivative: Hydroxide

Synonym(s): Haematin. Hematin

CAS Registry Number: 15489-90-4

Molecular Formula: C₃₄H₃₃FeN₄O₅

Molecular Weight: 633.505

Accurate Mass: 633.180035

Percentage Composition: C 64.46%; H 5.25%; Fe 8.82%; N 8.84%; O 12.63%

Use/Importance: Used in the treatment of acute intermittent porphyria

UV: [base] λ_{max} 580 (E1%/1cm 10.5) (NaOH) (Berdy)

Hazard & Toxicity: LD₅₀ (rat, ivn) 43 mg/kg

Aldrich: 25831-8

Sigma: H3505