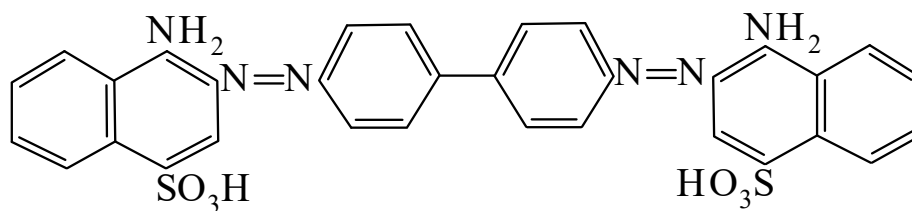




>>Entry Name: Congo red

Synonym(s): 3,3'-[(1,1'-Biphenyl)-4,4'-diylbis(azo)]bis[4-amino-1-naphthalenesulfonic acid], 9Cl. C.I. Direct red 28. Direct red. Haemomedical. Haemonorm. Hemorrhagyl. Solucongo. C.I. 22120



Molecular Formula: C₃₂H₂₄N₆O₆S₂

Molecular Weight: 652.71

Accurate Mass: 652.119874

Percentage Composition: C 58.89%; H 3.71%; N 12.88%; O 14.71%; S 9.83%

General Statement: Strictly, the name Congo red applies to the disodium salt

Use/Importance: Inhibits neurotoxic effects of fibrillar β -amyloid peptides (implications for treatment of Alzheimer's disease). Inhibits replication and accumulation of agent responsible for scrapie. Indicator used for diagnosis of amyloidosis. Also used to detect acute-phase serum proteins. Acid-base indicator (pH range: 3.0-5.2). Biological stain

Calculated Log P Data: Log P 5.09 (calc)

>>Derivative: Di-Na salt

CAS Registry Number: 573-58-0

Physical Description: Brown-red powder

Solubility: Sol. H₂O

Hazard & Toxicity: Cardiovascular effects by ingestion. Exp. reprod. and teratogenic effects

Aldrich: 19845-5

Fluka: 60910

Sigma: C6767

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