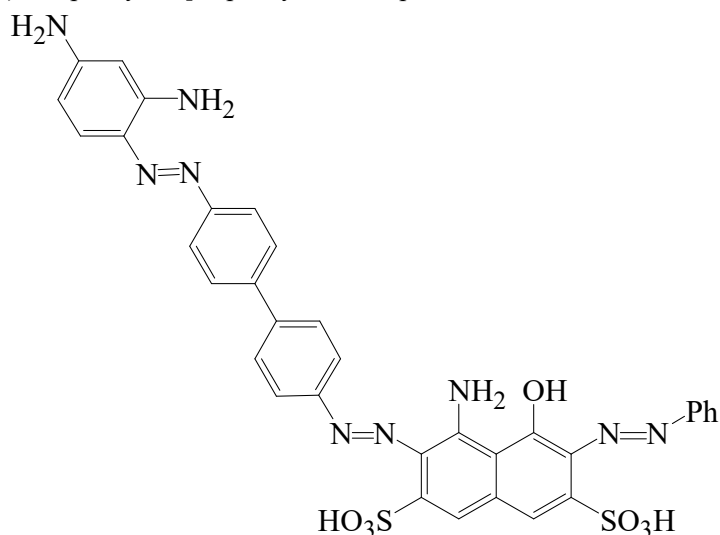




>>Entry Name: 4-Amino-3-[[4'-(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)-2,7-naphthalenedisulfonic acid, 9CI

Synonym(s): 8-Amino-7-[4'-(2,4-diaminophenylazo)-4-biphenylazo]-2-phenylazo-1-naphthol-3,6-disulfonic acid. C.I. 30235. NCI-C54557



CAS Registry Number: 22244-14-0

Molecular Formula: $C_{34}H_{27}N_9O_7S_2$

Molecular Weight: 737.775

Accurate Mass: 737.147486

Percentage Composition: C 55.35%; H 3.69%; N 17.09%; O 15.18%; S 8.69%

Metabolism: Metab. to 4,4'-Diaminobiphenyl [DVM42-R](#)

Hazard & Toxicity: Carcinogen

>>Derivative: Di-Na salt

Synonym(s): Apomine Black GX. Chloramine Black C. C.I. Direct Black 38

CAS Registry Number: 1937-37-7

Molecular Formula: $C_{34}H_{25}N_9Na_2O_7S_2$

Molecular Weight: 781.739

Accurate Mass: 781.11137

Percentage Composition: C 52.24%; H 3.22%; N 16.13%; Na 5.88%; O 14.33%; S 8.20%

Use/Importance: Dyestuff. Used in black inks and leather dyes

References:

U.S. Pat., 1903, 717 550, (*di-Na salt, synth*)

Morris, R.J. *et al.*, *J.O.C.*, 1954, **19**, 1306-1315, (*uv*)

Bowman, M.C. *et al.*, *IARC Sci. Publ.*, 1981, **40**, 193-217, (*metab, detn*)

Kirk-Othmer Encycl. Chem. Technol., 4th edn., Wiley, 1991, **8**, 768, (*props, bibl*)

Sax, N.I. *et al.*, *Dangerous Properties of Industrial Materials*, 7th edn., Van Nostrand Reinhold, 1989, AQP 000, (*tox*)