



>>Entry Name: 4,4'-Diamino-2,2'-biphenyldisulfonic acid, 8Cl

Synonym(s): Benzidine-2,2'-disulfonic acid

CAS Registry Number: 117-61-3

Molecular Formula: $C_{12}H_{12}N_2O_6S_2$

Molecular Weight: 344.369

Accurate Mass: 344.013678

Percentage Composition: C 41.85%; H 3.51%; N 8.13%; O 27.88%; S 18.62%

Physical Description: Prisms

Other Data: Dec. without melting

Hazard & Toxicity: Severe eye irritant

Rare Chemicals Library: S68042-7

>>Derivative: Hydrochloride (1:2)

Physical Description: Prisms + 2H₂O

Melting Point: Mp 205°

>>Derivative: Diphenyl ester

Molecular Formula: $C_{24}H_{20}N_2O_6S_2$

Molecular Weight: 496.564

Accurate Mass: 496.076278

Percentage Composition: C 58.05%; H 4.06%; N 5.64%; O 19.33%; S 12.92%

Physical Description: Plates (petrol/Me₂CO or EtOAc)

Melting Point: Mp 226-227°

Other Data: Has been resolved

>>Derivative: Diamide

Molecular Formula: $C_{12}H_{14}N_4O_4S_2$

Molecular Weight: 342.399

Accurate Mass: 342.045646

Percentage Composition: C 42.09%; H 4.12%; N 16.36%; O 18.69%; S 18.73%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 278°

References:

Lesslie, M.S. *et al.*, *J.C.S.*, 1932, 2021, (*deriv*)

Grubina, L.M. *et al.*, *J. Appl. Chem. USSR (Engl. Transl.)*, 1940, **13**, 1028; *CA*, **35**, 2077, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, BBX500