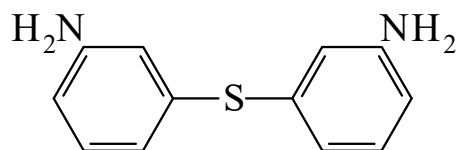




>>Entry Name: **3,3'-Diaminodiphenyl sulfide**

Synonym(s): 3,3'-Thiobisbenzenamine, 9Cl. 3,3'-Thiodianiline, 8Cl. Bis(3-aminophenyl) sulfide



CAS Registry Number: 23808-29-9

Molecular Formula: C₁₂H₁₂N₂S

Molecular Weight: 216.306

Accurate Mass: 216.072118

Percentage Composition: C 66.63%; H 5.59%; N 12.95%; S 14.82%

Hazard & Toxicity: LD₅₀ (rat, orl) 4920 mg/kg

>>Derivative: S,S-Dioxide

Synonym(s): 3,3'-Diaminodiphenyl sulfone. 3,3'-Sulfonylbisbenzenamine, 9Cl. 3,3'-Sulfonyldianiline, 8Cl. Bis(3-aminophenyl) sulfone. 3-Aminophenyl sulfone. DAS

CAS Registry Number: 599-61-1

Extra CAS Registry Numbers(s): 27133-91-1

Molecular Formula: C₁₂H₁₂N₂O₂S

Molecular Weight: 248.305

Accurate Mass: 248.061948

Percentage Composition: C 58.05%; H 4.87%; N 11.28%; O 12.89%; S 12.91%

Source/Synthesis: Manuf. from aniline and SO₂Cl₂

Use/Importance: Has antileprotic props. Cross-linking agent for epoxy resins. Monomer for polyamides and polyimides

Physical Description: Prisms

Melting Point: Mp 168°

Solubility: Insol. H₂O; sol. oxygenated solvs.

Aldrich: A7460-2

References:

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Baker, B.R. *et al.*, *J.O.C.*, 1950, **15**, 400, (dioxide)

Hart, W.F. *et al.*, *J.O.C.*, 1962, **27**, 338, (dioxide)

Jones, M.E.B., *CA*, 1969, **71**, 113330s, (dioxide, polyamides)

Ayyangar, N.R. *et al.*, *Synthesis*, 1981, 640, (dioxide, ir, pmr, ms)

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