



>>Entry Name: 2,4'-Diaminodiphenyl sulfide

Synonym(s): 2,4'-Thiobisbenzenamine, 9Cl. 2,4'-Thiodianiline

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%

Physical Description: Prisms (EtOH aq.)

Melting Point: Mp 62.5°

>>Derivative: N,N'-Di-Ac

Molecular Formula: C₁₆H₁₆N₂O₂S

Molecular Weight: 300.381

Accurate Mass: 300.093248

Percentage Composition: C 63.98%; H 5.37%; N 9.33%; O 10.65%; S 10.68%

Melting Point: Mp 208°

>>Derivative: S,S-Dioxide

Synonym(s): 2,4'-Diaminodiphenyl sulfone. 2,4'-Sulfonylbisbenzenamine, 9Cl. 2,4'-Sulfonyldianiline

CAS Registry Number: 27147-69-9

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%

Melting Point: Mp 117°

References:

Hodgson, H.H. *et al.*, *J. Soc. Dyers Colour.*, 1930, **46**, 268; *CA*, **24**, 5736, (*synth*)

Roblin, R.O. *et al.*, *J.A.C.S.*, 1941, **63**, 1930, (*dioxide*)

U.S. Pat., 1944, 2 336 445; *CA*, **38**, 2972, (*dioxide*)

Mazonski, T., *Pol. J. Chem. (Rocz. Chem.)*, 1949, **23**, 318; *CA*, **45**, 5647, (*synth*)