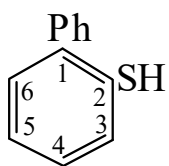




>>Entry Name: 2-Biphenylthiol, 8Cl

Synonym(s): 2-Mercaptobiphenyl



CAS Registry Number: 2688-96-2

Molecular Formula: C₁₂H₁₀S

Molecular Weight: 186.277

Accurate Mass: 186.05032

Percentage Composition: C 77.38%; H 5.41%; S 17.21%

Physical Description: Prisms (CH₂Cl₂/EtOH)

Melting Point: Mp 39-40°

Boiling Point: Bp₄ 143°

>>Derivative: S-Ac

Molecular Formula: C₁₄H₁₂OS

Molecular Weight: 228.314

Accurate Mass: 228.060885

Percentage Composition: C 73.65%; H 5.30%; O 7.01%; S 14.04%

Melting Point: Mp 119-121°

>>Derivative: S-Me

Synonym(s): 2-(Methylthio)biphenyl

CAS Registry Number: 19813-75-3

Molecular Formula: C₁₃H₁₂S

Molecular Weight: 200.304

Accurate Mass: 200.06597

Percentage Composition: C 77.95%; H 6.04%; S 16.01%

Physical Description: Plates (MeOH)

Melting Point: Mp 40-41°

Rare Chemicals Library: S32562-7

>>Derivative: S-Ph

Synonym(s): 2-(Phenylthio)biphenyl

CAS Registry Number: 39950-36-2

Molecular Formula: C₁₈H₁₄S

Molecular Weight: 262.375

Accurate Mass: 262.08162

Percentage Composition: C 82.40%; H 5.38%; S 12.22%

Physical Description: Liq.

Boiling Point: Bp_{1.5} 170-173°

References:

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Janczewski, M. *et al.*, *Pol. J. Chem. (Rocz. Chem.)*, 1961, **35**, 1155; *CA*, **69**, 51794n, (*deriv*)

Charlton, J.L. *et al.*, *Can. J. Chem.*, 1974, **52**, 3021, (*synth*)

Klemm, L.H. *et al.*, *J. Het. Chem.*, 1978, **15**, 281; 561, (*synth*, *pmr*)

Dektar, J.L. *et al.*, *J.A.C.S.*, 1990, **112**, 6004, (*Ph ether*, *synth*, *pmr*, *cmr*, *ir*, *uv*)