



>>Entry Name: 4,4'-Dibromodiphenyl sulfide

Synonym(s): 1,1'-Thiobis[4-bromobenzene], 9Cl. Bis(*p*-bromophenyl) sulfide, 8Cl. Di-4-bromophenyl sulfide

CAS Registry Number: 3393-78-0

Molecular Formula: C₁₂H₈Br₂S

Molecular Weight: 344.069

Accurate Mass: 341.911342

Percentage Composition: C 41.89%; H 2.34%; Br 46.45%; S 9.32%

Physical Description: Leaflets (EtOH)

Melting Point: Mp 112°

Boiling Point: Bp₄₀ 268.5°

>>Derivative: S-Oxide

Synonym(s): 1,1'-Sulfinylbis[4-bromobenzene], 9Cl. Bis(*p*-bromophenyl)sulfoxide, 8Cl. 4,4'-Dibromodiphenyl sulfoxide. Di-4-bromophenyl sulfoxide

CAS Registry Number: 1774-37-4

Molecular Formula: C₁₂H₈Br₂OS

Molecular Weight: 360.069

Accurate Mass: 357.906257

Percentage Composition: C 40.03%; H 2.24%; Br 44.38%; O 4.44%; S 8.91%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 153°

>>Derivative: S,S-Dioxide

Synonym(s): 1,1'-Sulfonylbis[4-bromobenzene], 9Cl. Bis(*p*-bromophenyl)sulfone, 8Cl. 4,4'-Dibromodiphenyl sulfone. Di-4-bromophenyl sulfone

Molecular Formula: C₁₂H₈Br₂O₂S

Molecular Weight: 376.068

Accurate Mass: 373.901172

Percentage Composition: C 38.33%; H 2.14%; Br 42.49%; O 8.51%; S 8.53%

Physical Description: Prisms (AcOH or EtOH)

Melting Point: Mp 172°

References:

Buehler, C.A. *et al.*, *J.O.C.*, 1939, **4**, 262, (*sulfone*)

Castrillon, J.P.A. *et al.*, *J.O.C.*, 1965, **30**, 1338, (*synth*)

Ho, T.-L. *et al.*, *Synthesis*, 1972, 561, (*sulfoxide*)

Ambrosetti, R. *et al.*, *Mol. Phys.*, 1974, **28**, 535, (*nqr*)

Voronkov, M.G. *et al.*, *Zh. Org. Khim.*, 1976, **12**, 2179; *CA*, **86**, 72104