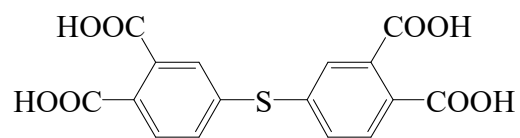




>>Entry Name: 4,4'-Thiobis[1,2-benzenedicarboxylic acid]

Synonym(s): Diphenyl sulfide 3,3',4,4'-tetracarboxylic acid



Molecular Formula: C₁₆H₁₀O₈S

Molecular Weight: 362.316

Accurate Mass: 362.00964

Percentage Composition: C 53.04%; H 2.78%; O 35.33%; S 8.85%

>>Derivative: S,S-Dioxide

CAS Registry Number: 10595-31-0

Molecular Formula: C₁₆H₁₀O₁₀S

Molecular Weight: 394.315

Accurate Mass: 393.99947

Percentage Composition: C 48.74%; H 2.56%; O 40.58%; S 8.13%

Physical Description: Cryst.

Melting Point: Mp 289-290°

>>Derivative: S,S-Dioxide, dianhydride

CAS Registry Number: 2540-99-0

Molecular Formula: C₁₆H₆O₆S

Molecular Weight: 326.286

Accurate Mass: 325.98851

Percentage Composition: C 58.90%; H 1.85%; O 29.42%; S 9.83%

Use/Importance: Crosslinking agent in polymers

Physical Description: Cryst. (AcOH, Ac₂O)

Melting Point: Mp 280-283°

References:

Mironov, G.S. *et al.*, *CA*, 1970, **72**, 89981, (*synth, sulfone anhydride*)

Pratt, J.R. *et al.*, *Polym. Mater. Sci. Eng.*, 1989, **60**, 192-196, (*synth, sulfone anhydride*)