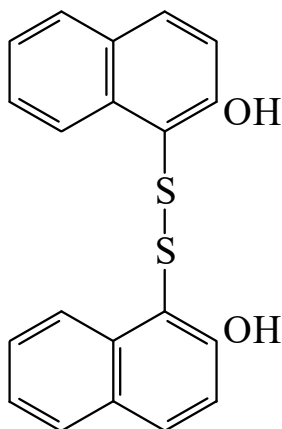




>>Entry Name: 1,1'-Dithiobis[2-naphthalenol]

Synonym(s): 2,2'-Dihydroxydi-1-naphthalenyl disulfide



CAS Registry Number: 42521-82-4

Molecular Formula: C₂₀H₁₄O₂S₂

Molecular Weight: 350.461

Accurate Mass: 350.04352

Percentage Composition: C 68.54%; H 4.03%; O 9.13%; S 18.30%

Physical Description: Yellow needles (C₆H₆/petrol)

Melting Point: Mp 172°

Other: PB T10354

>>Derivative: Di-Ac

Molecular Formula: C₂₄H₁₈O₄S₂

Molecular Weight: 434.536

Accurate Mass: 434.06465

Percentage Composition: C 66.34%; H 4.18%; O 14.73%; S 14.76%

Physical Description: Light yellow prisms (AcOH)

Melting Point: Mp 200°

>>Derivative: Dibenzoyl

Molecular Formula: C₃₄H₂₂O₄S₂

Molecular Weight: 558.677

Accurate Mass: 558.09595

Percentage Composition: C 73.10%; H 3.97%; O 11.46%; S 11.48%

Physical Description: Rhomboids (AcOH)

Melting Point: Mp 191.5°

>>Derivative: Di-Me ether

Synonym(s): Bis(2-methoxy-1-naphthalenyl) disulfide

Molecular Formula: C₂₂H₁₈O₂S₂

Molecular Weight: 378.515

Accurate Mass: 378.07482

Percentage Composition: C 69.81%; H 4.79%; O 8.45%; S 16.94%

Physical Description: Yellow prisms (EtOH)

Melting Point: Mp 20°

References:

Warren, L.A. *et al.*, *J.C.S.*, 1931, 914; 1192, (*di-Ac, di-Me ether*)

McClelland, J.A.C. *et al.*, *J.C.S.*, 1933, 786, (*synth*)

Jusa, E. *et al.*, *Monatsh. Chem.*, 1937, **72**, 93, (*dibenzoyl*)

Sharma, G.L., *J. Indian Chem. Soc.*, 1990, **67**, 812, (*synth, ir, pmr*)