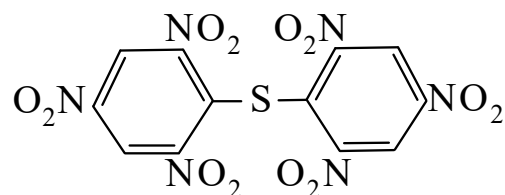




>>Entry Name: 2,2',4,4',6,6'-Hexanitrodiphenyl sulfide

Synonym(s): 1,1'-Thiobis(2,4,6-trinitrobenzene), 9Cl. Bis(2,4,6-trinitrophenyl) sulfide, 8Cl. Picryl sulfide. Dipicryl sulfide



CAS Registry Number: 2217-06-3

Related CAS Registry Numbers(s): 28930-30-5

Molecular Formula: $C_{12}H_4N_6O_{12}S$

Molecular Weight: 456.263

Accurate Mass: 455.960794

Percentage Composition: C 31.59%; H 0.88%; N 18.42%; O 42.08%; S 7.03%

Use/Importance: Powerful explosive producing irritating and toxic decomposition products

Physical Description: Yellow cryst.

Melting Point: Mp 230-231°

Other Data: Deflagrates at 290°

Hazard & Toxicity: Explosive. LD₅₀ (rat, orl) 1200 mg/kg

References:

Twiss, D., *J.C.S.*, 1914, **105**, 1675, (*synth*)

van Duin, C.F. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1920, **39**, 157

Parihar, D.B., *Mikrochim. Acta*, 1972, 393, (*chromatog*)

Ginzburg, B.M., *CA*, 1975, **82**, 86157, (*synth*)

Sharnin, G.P., *CA*, 1975, **83**, 9358, (*synth*)

Davydov, D.V. *et al.*, *Zh. Obshch. Khim.*, 1983, **53**, 455, (*ms*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, BLR750