



>>Entry Name: **3,3'-Dinitrodiphenyl sulfide**

Synonym(s): 1,1'-Thiobis[3-nitrobenzene], 9Cl. Bis(*m*-nitrophenyl)sulfide. Di(3-nitrophenyl) sulfide

CAS Registry Number: 1228-53-1

Structure by analogy with 2,2'-Dinitrodiphenyl sulfide, [FBG33-X](#)

Molecular Formula: C₁₂H₈N₂O₄S

Molecular Weight: 276.272

Accurate Mass: 276.020478

Percentage Composition: C 52.17%; H 2.92%; N 10.14%; O 23.16%; S 11.61%

Rare Chemicals Library: S79939-4

>>Derivative: *S,S*-Dioxide

Synonym(s): 1,1'-Sulfonylbis[3-nitrobenzene], 9Cl. 3,3'-Dinitrodiphenyl sulfone

Molecular Formula: C₁₂H₈N₂O₆S

Molecular Weight: 308.271

Accurate Mass: 308.010308

Percentage Composition: C 46.75%; H 2.62%; N 9.09%; O 31.14%; S 10.40%

Melting Point: Mp 201°

References:

Martinet, J. *et al.*, *C. R. Hebd. Seances Acad. Sci.*, 1921, **173**, 775, (*dioxide*)

Lacroix, J., *Bull. Soc. Chim. Fr.*, 1924, **35**, 1436, (*dioxide*)

Amer, A. *et al.*, *Chem. Scr.*, 1989, **29**, 351, (*dioxide*)