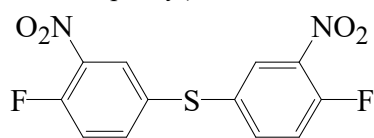




>>Entry Name: 4,4'-Difluoro-3,3'-dinitrodiphenyl sulfide

Synonym(s): 1,1'-Thiobis[4-fluoro-3-nitrobenzene], 9Cl. Bis(4-fluoro-3-nitrophenyl) sulfide, 8Cl



Molecular Formula: C₁₂H₆F₂N₂O₄S

Molecular Weight: 312.253

Accurate Mass: 312.001634

Percentage Composition: C 46.16%; H 1.94%; F 12.17%; N 8.97%; O 20.50%; S 10.27%

>>Derivative: S,S-Dioxide

Synonym(s): 4,4'-Difluoro-3,3'-dinitrodiphenyl sulfone, 9Cl. Bis(4-fluoro-3-nitrophenyl) sulfone. 1,1'-Sulfonylbis[4-fluoro-3-nitrobenzene]

CAS Registry Number: 312-30-1

Molecular Formula: C₁₂H₆F₂N₂O₆S

Molecular Weight: 344.252

Accurate Mass: 343.991464

Percentage Composition: C 41.87%; H 1.76%; F 11.04%; N 8.14%; O 27.89%; S 9.31%

Use/Importance: Used as a crosslinking agent to locate the three-dimensional positions of amino acid residues in proteins

Melting Point: Mp 193-194°

Aldrich: F1170-0

Fluka: 14825

Sigma: F3626

References:

Modesto, R.R. *et al.*, *Biochim. Biophys. Acta*, 1971, **229**, 384, (use)