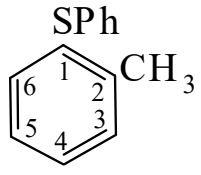
>>**Entry Name: 2-Methyldiphenyl sulfide**
Synonym(s): 1-Methyl-2-(phenylthio)benzene, 9CI. Phenyl *o*-tolyl sulfide, 8CI. (2-Methylphenyl)phenyl sulfide



CAS Registry Number: 13963-35-4

Molecular Formula: $C_{13}H_{12}S$
Molecular Weight: 200.304
Accurate Mass: 200.06597
Percentage Composition: C 77.95%; H 6.04%; S 16.01%
Physical Description: Oil
Boiling Point: Bp_{724} 304.5°. Bp_{100} 222.5°
Density: d_4^0 1.11

>>**Derivative:** *S*-Oxide, (±)-
Synonym(s): 2-Methyldiphenyl sulfoxide. 1-Methyl-2-(phenylsulfinyl)benzene, 9CI. Phenyl *o*-tolyl sulfoxide, 8CI. (2-Methylphenyl)phenyl sulfoxide

CAS Registry Number: 50986-89-5
Extra CAS Registry Numbers(s): 130610-69-4
Molecular Formula: $C_{13}H_{12}OS$
Molecular Weight: 216.303
Accurate Mass: 216.060885
Percentage Composition: C 72.19%; H 5.59%; O 7.40%; S 14.82%
Physical Description: Prisms
Melting Point: Mp 42°
Boiling Point: Bp_{11} 220°

>>**Derivative:** *S*,*S*-Dioxide
Synonym(s): 2-Methyldiphenyl sulfone. 1-Methyl-2-(phenylsulfonyl)benzene, 9CI. Phenyl *o*-tolyl sulfone, 8CI. (2-Methylphenyl)phenyl sulfone

CAS Registry Number: 7018-84-0
Molecular Formula: $C_{13}H_{12}O_2S$
Molecular Weight: 232.303
Accurate Mass: 232.0558
Percentage Composition: C 67.22%; H 5.21%; O 13.77%; S 13.80%
Physical Description: Plates (EtOH)
Melting Point: Mp 80-81°
Rare Chemicals Library: S84895-6

References:

Bourgeois, E.*, Ber.*, 1895, **28**, 2312-2330, *(synth)*
Courtot, C. *et al.*, *C. R. Hebd. Seances Acad. Sci.*, 1934, **199**, 557-559, *(oxide)*
Leandri, G. *et al.*, *J.C.S.*, 1957, 1386-1395, *(oxide, uv)*
Mangani, A.*, Gazz. Chim. Ital.*, 1958, **88**, 1063-1080, *(oxide)*
Olah, G.A. *et al.*, *J.O.C.*, 1970, **35**, 3925-3928; 1974, **39**, 1203-1205, *(oxides, synth, pmr)*
Montaudo, G. *et al.*, *J. Mol. Struct.*, 1972, **14**, 53-59; 1973, **16**, 299-306, *(pmr)*
Bunnett, J.P. *et al.*, *J.O.C.*, 1974, **39**, 3173-3174, *(synth)*
Olah, G.A. *et al.*, *Synthesis*, 1974, 342-343, *(dioxide)*
Neumann, W.P. *et al.*, *Chem. Ber.*, 1993, **126**, 763-768, *(dioxide, synth, ir, pmr, cmr)*
Jeyakanthan, J. *et al.*, *Acta Cryst. C*, 1998, **54**, 630-633, *(dioxide, cryst struct)*
Suwa, S. *et al.*, *Chem. Pharm. Bull.*, 1999, **47**, 980-982, *(synth, ir, pmr)*

https://www.baizuoyan.com - CopyRight ©baizuoyan