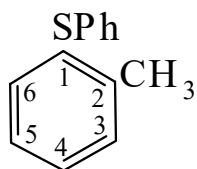




>>Entry Name: 2-Methyldiphenyl sulfide

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<sub>13</sub>H<sub>12</sub>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<sub>724</sub> 304.5°. Bp<sub>100</sub> 222.5°

Density: d<sub>4</sub><sup>0</sup> 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<sub>13</sub>H<sub>12</sub>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<sub>11</sub> 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<sub>13</sub>H<sub>12</sub>O<sub>2</sub>S

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

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