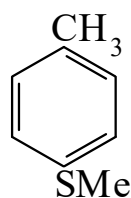




>>Entry Name: 1-Methyl-4-(methylthio)benzene, 9Cl

Synonym(s): Methyl *p*-tolyl sulfide, 8Cl. *p*-Thiocresol methyl ether. 1-Methyl-4-methylmercaptobenzene. *p*-(Methylthio)toluene



CAS Registry Number: 623-13-2

Molecular Formula: C<sub>8</sub>H<sub>10</sub>S

Molecular Weight: 138.233

Accurate Mass: 138.05032

Percentage Composition: C 69.51%; H 7.29%; S 23.20%

Use/Importance: Reagent for the glc anal. of peracids

Boiling Point: Bp<sub>747</sub> 209°. Bp<sub>20</sub> 104-105°

Density: d<sub>4</sub><sup>16</sup> 1.03

Refractive Index: n<sub>D</sub><sup>20</sup> 1.5733

Aldrich: 27595-6

>>Derivative: S-Oxide

>>Derivative: S,S-Dioxide

Synonym(s): 1-Methyl-4-(methylsulfonyl)benzene, 9Cl. Methyl *p*-tolyl sulfone, 8Cl

CAS Registry Number: 3185-99-7

Molecular Formula: C<sub>8</sub>H<sub>10</sub>O<sub>2</sub>S

Molecular Weight: 170.232

Accurate Mass: 170.04015

Percentage Composition: C 56.45%; H 5.92%; O 18.80%; S 18.84%

Physical Description: Prisms (EtOH)

Melting Point: Mp 88°

Rare Chemicals Library: S81258-7

#### References:

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*Adv. Chem. Ser.*, 1955, **15**, 177, (*props*)

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*Org. Synth., Coll. Vol.*, 4, 1963, 674, (*dioxide*)

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