



>>Entry Name: Benzyl methyl sulfide, 8CI

ENTRY UNDER REVIEW

Synonym(s): [(Methylthio)methyl]benzene, 9CI. FEMA 3597

CAS Registry Number: 766-92-7

PhCH₂SMe

Molecular Formula: C₈H₁₀S

Molecular Weight: 138.233

Accurate Mass: 138.05032

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

Biological Source: Constit. of the marine sponge *Halichondria panicea*

Physical Description: Liq. with powerful horseradish odour

Boiling Point: Bp 199-201°. Bp₂₅ 80°. Bp₄ 70-72°

Density: d₂₀²⁰ 1.03

Refractive Index: n_D²⁰ 1.5632

>>Derivative: S-Oxide

Synonym(s): [(Methylsulfinyl)methyl]benzene, 9CI. Benzyl methyl sulfoxide

CAS Registry Number: 824-86-2

Molecular Formula: C₈H₁₀OS

Molecular Weight: 154.232

Accurate Mass: 154.045235

Percentage Composition: C 62.30%; H 6.53%; O 10.37%; S 20.79%

Physical Description: Cryst. (petrol)

Melting Point: Mp 54°

Solubility: Mod. sol. H₂O, Et₂O, petrol, sol. EtOH, AcOH

Other Data: Opt. active forms known

Rare Chemicals Library: S62004-1

>>Derivative: S,S-Dioxide

Synonym(s): [(Methylsulfonyl)methyl]benzene. Benzyl methyl sulfone. DMIT

CAS Registry Number: 3112-90-1

Molecular Formula: C₈H₁₀O₂S

Molecular Weight: 170.232

Accurate Mass: 170.04015

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

Melting Point: Mp 127°

Solubility: Sol. H₂O

Rare Chemicals Library: S62008-4

References:

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