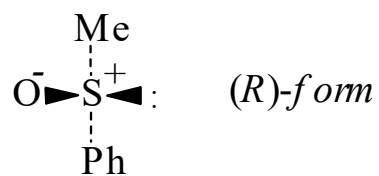




>>Entry Name: Methyl phenyl sulfoxide

Synonym(s): (Methylsulfinyl)benzene, gCl. Methyl benzenesulfenate



CAS Registry Number: 1193-82-4

Molecular Formula: C₇H₈OS

Molecular Weight: 140.206

Accurate Mass: 140.029585

Percentage Composition: C 59.97%; H 5.75%; O 11.41%; S 22.87%

Aldrich: 26169-6

Fluka: 68743

Sigma: M4894

>>Variant: (R)-form

CAS Registry Number: 4850-71-9

Molecular Formula: C₇H₈OS

Molecular Weight: 140.206

Accurate Mass: 140.029585

Percentage Composition: C 59.97%; H 5.75%; O 11.41%; S 22.87%

Boiling Point: Bp_{0.2} 90°

Optical Rotation: [α]_D²⁵ +128.5 (c, 15.2 in EtOH)

>>Variant: (S)-form

CAS Registry Number: 18453-46-8

Molecular Formula: C₇H₈OS

Molecular Weight: 140.206

Accurate Mass: 140.029585

Percentage Composition: C 59.97%; H 5.75%; O 11.41%; S 22.87%

Optical Rotation: [α]_D²⁵ -127.5 (c, 2.2 in EtOH)

>>Variant: (±)-form

Molecular Formula: C₇H₈OS

Molecular Weight: 140.206

Accurate Mass: 140.029585

Percentage Composition: C 59.97%; H 5.75%; O 11.41%; S 22.87%

Melting Point: Mp 33-34°

Boiling Point: Bp₁₃ 140-142°. Bp_{0.1} 78-79°

>>Derivative: S-Oxide

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