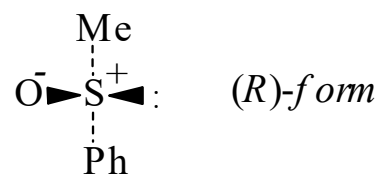




>>Entry Name: Methyl phenyl sulfoxide

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



CAS Registry Number: 1193-82-4

Molecular Formula: $\text{C}_7\text{H}_8\text{OS}$

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: $\text{C}_7\text{H}_8\text{OS}$

Molecular Weight: 140.206

Accurate Mass: 140.029585

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

Boiling Point: $\text{Bp}_{0.2}$ 90°

Optical Rotation: $[\alpha]_{\text{D}}^{25} +128.5$ (c, 15.2 in EtOH)

>>Variant: (S)-form

CAS Registry Number: 18453-46-8

Molecular Formula: $\text{C}_7\text{H}_8\text{OS}$

Molecular Weight: 140.206

Accurate Mass: 140.029585

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

Optical Rotation: $[\alpha]_{\text{D}}^{25} -127.5$ (c, 2.2 in EtOH)

>>Variant: (±)-form

Molecular Formula: $\text{C}_7\text{H}_8\text{OS}$

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: Bp_{13} 140-142°. $\text{Bp}_{0.1}$ 78-79°

>>Derivative: S-Oxide

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