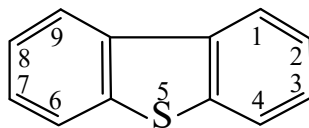




>>Entry Name: **Dibenzothiophene**, 9CI, USAN
Synonym(s): Diphenylene sulfide. 9-Thiafluorene



CAS Registry Number: 132-65-0

Molecular Formula: $C_{12}H_8S$
Molecular Weight: 184.261
Accurate Mass: 184.03467
Percentage Composition: C 78.22%; H 4.38%; S 17.40%
Use/Importance: Keratolytic agent
Physical Description: Cryst. (petrol)
Melting Point: Mp 99°
Boiling Point: Bp 332-333°. Bp₃ 152-154°
Calculated Log P Data: Log P 4.56 (calc)

Aldrich: 34783-3
Fluka: 42990
Supelco: R42-3050

>>Derivative: Picrate

Physical Description: Yellow cryst. (EtOH)
Melting Point: Mp 125°

>>Derivative: S-Oxide

CAS Registry Number: 1013-23-6
Molecular Formula: $C_{12}H_8OS$
Molecular Weight: 200.261
Accurate Mass: 200.029585
Percentage Composition: C 71.97%; H 4.03%; O 7.99%; S 16.01%
Melting Point: Mp 189.5-190° (183-185°)
Rare Chemicals Library: S81803-8

>>Derivative: S,S-Dioxide

CAS Registry Number: 1016-05-3
Molecular Formula: $C_{12}H_8O_2S$
Molecular Weight: 216.26
Accurate Mass: 216.0245
Percentage Composition: C 66.65%; H 3.73%; O 14.80%; S 14.83%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 230°
Aldrich: D3240-7

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