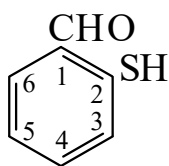




>>Entry Name: 2-Mercaptobenzaldehyde

Synonym(s): 2-Formylbenzenethiol. Thiosalicylaldehyde



CAS Registry Number: 29199-11-9

Molecular Formula: C₇H₆OS

Molecular Weight: 138.19

Accurate Mass: 138.013935

Percentage Composition: C 60.84%; H 4.38%; O 11.58%; S 23.20%

Physical Description: Yellow oil

Other Data: Unstable, stored in Et₂O soln.

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Red-orange solid

Melting Point: Mp 270°

>>Derivative: S-Me

Synonym(s): 2-(Methylthio)benzaldehyde

CAS Registry Number: 7022-45-9

Molecular Formula: C₈H₈OS

Molecular Weight: 152.217

Accurate Mass: 152.029585

Percentage Composition: C 63.13%; H 5.30%; O 10.51%; S 21.07%

Physical Description: Pale yellow oil

Boiling Point: Bp₁₉ 149-150°

Rare Chemicals Library: S13292-6

>>Derivative: S-Me, 2,4-dinitrophenylhydrazone

CAS Registry Number: 52369-78-5

Melting Point: Mp 243°

>>Derivative: S-tert-Butyl

Molecular Formula: C₁₁H₁₄OS

Molecular Weight: 194.297

Accurate Mass: 194.076535

Percentage Composition: C 68.00%; H 7.26%; O 8.23%; S 16.50%

Boiling Point: Bp_{0.015} 170°

>>Derivative: S-Me, S,S-dioxide

Synonym(s): 2-(Methylsulfonyl)benzaldehyde

CAS Registry Number: 5395-89-1

Molecular Formula: C₈H₈O₃S

Molecular Weight: 184.215

Accurate Mass: 184.019415

Percentage Composition: C 52.16%; H 4.38%; O 26.06%; S 17.41%

Physical Description: Needles or leaflets (H₂O)

Melting Point: Mp 97-98°

>>Derivative: S-Me, S,S-dioxide, semicarbazone

Physical Description: Cryst. (EtOH)

Melting Point: Mp 216-217°

>>Derivative: S-Me, S,S-dioxide, 2,4-dinitrophenylhydrazone

Melting Point: Mp 284°

References: