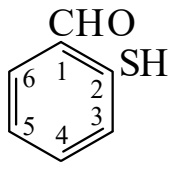
>>**Entry Name: 2-Mercaptobenzaldehyde**
Synonym(s): 2-Formylbenzenethiol. Thiosalicylaldehyde



CAS Registry Number: 29199-11-9

Molecular Formula: C_7H_6OS
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 Et_2O 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: C_8H_8OS
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: Bp_{19} 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: $C_{11}H_{14}OS$
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: $C_8H_8O_3S$
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 (H_2O)
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: