>>**Entry Name: 2-Hydroxy-5-methylbenzaldehyde,** 9CI
Synonym(s): 6-Hydroxy-*m*-tolualdehyde. *p*-Cresol-2-aldehyde. 5-Methylsalicylaldehyde. 2,5-Cresotaldehyde. 2-Formyl-4-methylphenol. *p*-Homosalicylaldehyde

CAS Registry Number: 613-84-3

Molecular Formula: $C_8H_8O_2$
Molecular Weight: 136.15
Accurate Mass: 136.05243
Percentage Composition: C 70.58%; H 5.92%; O 23.50%
Physical Description: Plates (EtOH aq.)
Melting Point: Mp 56°
Boiling Point: Bp 217-218°

Aldrich: 45466-4

>>**Derivative:** Oxime

CAS Registry Number: 1726-86-9
Molecular Formula: $C_8H_9NO_2$
Molecular Weight: 151.165
Accurate Mass: 151.063329
Percentage Composition: C 63.57%; H 6.00%; N 9.27%; O 21.17%
Physical Description: Needles (H_2O)
Melting Point: Mp 105°

>>**Derivative:** 2,4-Dinitrophenylhydrazone

Melting Point: Mp 261-264°

>>**Derivative:** Semicarbazone

CAS Registry Number: 54825-11-5

Molecular Formula: $C_9H_{11}N_3O_2$
Molecular Weight: 193.205
Accurate Mass: 193.085127
Percentage Composition: C 55.95%; H 5.74%; N 21.75%; O 16.56%
Use/Importance: Used as 0.1% DMF soln. for fluorimetric detn. of Sc (λ_{max} 470 nm, pH 6.2)
Physical Description: Needles (AcOH)
Melting Point: Mp 238 dec.°
Solubility: Sol. DMF, EtOH

>>**Derivative:** Thiosemicarbazone

CAS Registry Number: 53851-95-9

Molecular Formula: $C_9H_{11}N_3OS$
Molecular Weight: 209.271
Accurate Mass: 209.062282
Percentage Composition: C 51.65%; H 5.30%; N 20.08%; O 7.65%; S 15.32%
Use/Importance: Used as 0.1% DMF soln. for fluorimetric detn. of Ga (λ_{max} 465 nm, pH 4.5)
Physical Description: Cryst. (EtOH)
Solubility: Sol. DMF, EtOH

>>**Derivative:** Me ether
Synonym(s): 2-Methoxy-5-methylbenzaldehyde. 4-Methyl-*m*-anisaldehyde

Molecular Formula: $C_9H_{10}O_2$
Molecular Weight: 150.177
Accurate Mass: 150.06808
Percentage Composition: C 71.98%; H 6.71%; O 21.31%
Boiling Point: Bp 250°. Bp_{12} 130.2°

References: