



>>Entry Name: 5-Formyl-2-hydroxybenzoic acid, 9CI

Synonym(s): 6-Hydroxyisophthalaldehydic acid, 8CI. 5-Formylsalicylic acid. 3-Carboxy-4-hydroxybenzaldehyde

CAS Registry Number: 616-76-2

Related CAS Registry Numbers(s): 41489-76-3 73289-79-9 121501-54-0 125872-38-0 138851-41-9

Structure by analogy with 2-Formyl-3-hydroxybenzoic acid, [MNP50-Y](#)

Molecular Formula: C₈H₆O₄

Molecular Weight: 166.133

Accurate Mass: 166.02661

Percentage Composition: C 57.84%; H 3.64%; O 38.52%

Biological Use/Importance: Depresses rat liver mitochondrial respiration

Physical Description: Cryst. (EtOH)

Melting Point: Mp 250 dec.°

Aldrich: F1760-1

Fluka: 47733

>>Derivative: Oxime

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 222°

>>Derivative: Phenylhydrazone

Physical Description: Yellow prismatic needles (EtOH)

Melting Point: Mp 219°

>>Derivative: Thiosemicarbazone

Physical Description: Solid

Melting Point: Mp 270°

>>Derivative: Me ester

CAS Registry Number: 41489-76-3

Molecular Formula: C₉H₈O₄

Molecular Weight: 180.16

Accurate Mass: 180.04226

Percentage Composition: C 60.00%; H 4.48%; O 35.52%

Physical Description: Needles (EtOH)

Melting Point: Mp 82-83°

>>Derivative: Me ester, oxime

Molecular Formula: C₉H₉NO₄

Molecular Weight: 195.174

Accurate Mass: 195.053159

Percentage Composition: C 55.39%; H 4.65%; N 7.18%; O 32.79%

Physical Description: Clusters of needles (EtOH aq.)

Melting Point: Mp 147-148°

>>Derivative: Me ester, phenylhydrazone

Physical Description: Pale yellow prisms (EtOH)

Melting Point: Mp 120-121°

>>Derivative: Me ester, semicarbazone

Physical Description: Small pointed prisms (Py)

Melting Point: Mp 215-216°