



>>Entry Name: 3-Fluoro-4-hydroxybenzaldehyde

CAS Registry Number: 405-05-0

Structure by analogy with 2-Fluoro-3-hydroxybenzaldehyde, [FQJ55-V](#)

Molecular Formula: C₇H₅FO₂

Molecular Weight: 140.114

Accurate Mass: 140.027358

Percentage Composition: C 60.01%; H 3.60%; F 13.56%; O 22.84%

Physical Description: Needles (H₂O)

Melting Point: Mp 121-122°

>>Derivative: Oxime

Molecular Formula: C₇H₆FNO₂

Molecular Weight: 155.128

Accurate Mass: 155.038257

Percentage Composition: C 54.20%; H 3.90%; F 12.25%; N 9.03%; O 20.63%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 140-141°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Scarlet needles

Melting Point: Mp 291-292°

>>Derivative: Me ether

Synonym(s): 3-Fluoro-4-methoxybenzaldehyde, 9Cl. 3-Fluoro-*p*-anisaldehyde

CAS Registry Number: 351-54-2

Molecular Formula: C₈H₇FO₂

Molecular Weight: 154.141

Accurate Mass: 154.043008

Percentage Composition: C 62.34%; H 4.58%; F 12.33%; O 20.76%

Physical Description: Yellow cryst.

Melting Point: Mp 34-35° (29-30°)

Boiling Point: Bp 93-4.5°

References:

English, J. *et al.*, *J.A.C.S.*, 1940, **62**, 350-354, (*synth*, *Me ether*)

Ferguson, L.N. *et al.*, *J.A.C.S.*, 1946, **68**, 2502-2504, (*synth*)

Lock, G.J. *et al.*, *Monatsh. Chem.*, 1955, **86**, 511-516, (*synth*, *Me ether*)

Schaefer, T. *et al.*, *Can. J. Chem.*, 1985, **63**, 782-786, (*pmr*, *Me ether*)