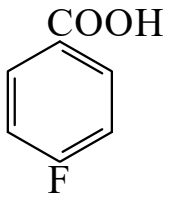
>>**Entry Name: 4-Fluorobenzoic acid**



CAS Registry Number: 456-22-4

Molecular Formula: $C_7H_5FO_2$
Molecular Weight: 140.114
Accurate Mass: 140.027358
Percentage Composition: C 60.01%; H 3.60%; F 13.56%; O 22.84%
Use/Importance: Used in etching. Reference material used in elemental microanalysis
Physical Description: Prisms (H_2O)
Melting Point: Mp 185°
pKa Value: pK_a 4.15 (25°)

Aldrich: 12838-4
Fluka: 46600
Sigma: F7003

>>**Derivative:** Me ester

CAS Registry Number: 403-33-8
Molecular Formula: $C_8H_7FO_2$
Molecular Weight: 154.14
Accurate Mass: 154.043008
Percentage Composition: C 62.34%; H 4.58%; F 12.33%; O 20.76%
Melting Point: Mp 4.5°
Boiling Point: Bp 198°
Aldrich: 12070-7

>>**Derivative:** Et ester

CAS Registry Number: 451-46-7
Molecular Formula: $C_9H_9FO_2$
Molecular Weight: 168.167
Accurate Mass: 168.058658
Percentage Composition: C 64.28%; H 5.39%; F 11.30%; O 19.03%
Melting Point: Mp 26°
Boiling Point: Bp 211°
Refractive Index: $n_D^{25.7}$ 1.4707
Aldrich: 10264-4
Fluka: 46610

>>**Derivative:** Isopropyl ester

CAS Registry Number: 2928-09-8
Molecular Formula: $C_{10}H_{11}FO_2$
Molecular Weight: 182.194
Accurate Mass: 182.074308
Percentage Composition: C 65.92%; H 6.09%; F 10.43%; O 17.56%
Boiling Point: Bp_{22} 96°

>>**Derivative:** *tert*-Butyl ester

CAS Registry Number: 58656-98-7
Molecular Formula: $C_{11}H_{13}FO_2$
Molecular Weight: 196.221
Accurate Mass: 196.089958
Percentage Composition: C 67.33%; H 6.68%; F 9.68%; O 16.31%
Boiling Point: $Bp_{0.4}$ 51-52°