>>**Entry Name: 3,5-Difluorobenzoic acid**

CAS Registry Number: 455-40-3

Molecular Formula: $C_7H_4F_2O_2$
Molecular Weight: 158.104
Accurate Mass: 158.017936
Percentage Composition: C 53.18%; H 2.55%; F 24.03%; O 20.24%
Physical Description: Cryst. by subl.
Melting Point: Mp 121-122°

Aldrich: 29018-1

>>**Derivative:** Et ester

Molecular Formula: $C_9H_8F_2O_2$
Molecular Weight: 186.158
Accurate Mass: 186.049236
Percentage Composition: C 58.07%; H 4.33%; F 20.41%; O 17.19%
Physical Description: Liq.
Boiling Point: Bp 200°. Bp_{46} 103-105°

>>**Derivative:** Chloride

CAS Registry Number: 129714-97-2
Molecular Formula: $C_7H_3ClF_2O$
Molecular Weight: 176.55
Accurate Mass: 175.984048
Percentage Composition: C 47.62%; H 1.71%; Cl 20.08%; F 21.52%; O 9.06%
Refractive Index: n_D^{20} 1.5031
Aldrich: 29025-4
Other: Oakwood 2113

>>**Derivative:** Nitrile
Synonym(s): 1-Cyano-3,5-difluorobenzene

CAS Registry Number: 64248-63-1
Molecular Formula: $C_7H_3F_2N$
Molecular Weight: 139.104
Accurate Mass: 139.023355
Percentage Composition: C 60.44%; H 2.17%; F 27.32%; N 10.07%
Physical Description: Cryst.
Melting Point: Mp 83-85°
Aldrich: 29020-3

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1136B; 1536C, *(nmr)*
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Roe, A. *et al.*, *J.O.C.*, 1955, **20**, 1577, *(synth, deriv)*
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