Molecular Weight: 158.559
Accurate Mass: 157.99347
Percentage Composition: C 53.03%; H 2.54%; Cl 22.36%; F 11.98%; O 10.09%
Use/Importance: Reagent for characterisation of alcohols, phenols, carboxylic acids, amines and thiols by F-19 nmr
Melting Point: Mp 9°
Boiling Point: Bp 193°
Hazard & Toxicity: Lachrymator
Aldrich: 11994-6
Fluka: 46760
Sigma: F0501

>>**Derivative:** Amide

CAS Registry Number: 824-75-9
Molecular Formula: C_7H_6FNO
Molecular Weight: 139.129
Accurate Mass: 139.043342
Percentage Composition: C 60.43%; H 4.35%; F 13.66%; N 10.07%; O 11.50%
Melting Point: Mp 154-155°
Boiling Point: Bp_{38} 104°
Aldrich: 20944-9

>>**Derivative:** Anilide

CAS Registry Number: 366-63-2
Molecular Formula: $C_{13}H_{10}FNO$
Molecular Weight: 215.226
Accurate Mass: 215.074642
Percentage Composition: C 72.55%; H 4.68%; F 8.83%; N 6.51%; O 7.43%
Physical Description: Needles (EtOH)
Melting Point: Mp 185°

>>**Derivative:** Hydrazide

CAS Registry Number: 456-06-4
Molecular Formula: $C_7H_7FN_2O$
Molecular Weight: 154.144
Accurate Mass: 154.054241
Percentage Composition: C 54.54%; H 4.58%; F 12.33%; N 18.17%; O 10.38%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 161.5-163°
Other: MG Z2743

>>**Derivative:** Nitrile
Synonym(s): 1-Cyano-4-fluorobenzene

CAS Registry Number: 1194-02-1
Molecular Formula: C_7H_4FN
Molecular Weight: 121.114
Accurate Mass: 121.032777
Percentage Composition: C 69.42%; H 3.33%; F 15.69%; N 11.56%
Melting Point: Mp 35-36°
Boiling Point: Bp_{750} 188.2°

Aldrich: 13941-6
Fluka: 46680
Sigma: F4885

>>**Derivative:** Anhydride

Molecular Formula: $C_{14}H_8F_2O_3$
Molecular Weight: 262.212
Accurate Mass: 262.044151
Percentage Composition: C 64.13%; H 3.08%; F 14.49%; O 18.31%
Physical Description: Cryst. (hexane)
Melting Point: Mp 108-110°

References: