



Percentage Composition: C 53.03%; H 2.54%; Cl 22.36%; F 11.98%; O 10.09%

Melting Point: Mp –30°

Boiling Point: Bp 189°. Bp 204°. Bp₁₈ 91°

Hazard & Toxicity: Lachrymator

Aldrich: 16253-1

Fluka: 46750

Sigma: F0376

>>Derivative: Amide

CAS Registry Number: 455-37-8

Molecular Formula: C₇H₆FNO

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 131-132°

Aldrich: 19069-1

>>Derivative: Anilide

CAS Registry Number: 1629-09-0

Molecular Formula: C₁₃H₁₀FNO

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: Cryst. (MeOH)

Melting Point: Mp 152-153°

>>Derivative: Nitrile

Synonym(s): 3-Fluorobenzonitrile. 1-Cyano-3-fluorobenzene

CAS Registry Number: 403-54-3

Molecular Formula: C₇H₄FN

Molecular Weight: 121.114

Accurate Mass: 121.032777

Percentage Composition: C 69.42%; H 3.33%; F 15.69%; N 11.56%

Boiling Point: Bp₇₅₃ 182-183°. Bp₃₀ 81-84°

Aldrich: 23582-2

References:

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Dippy, J. *et al.*, *J.C.S.*, 1934, 1466, (*synth*)

Taft, R.W. *et al.*, *J.A.C.S.*, 1963, **85**, 709, (*nmr*)

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