



>>Entry Name: 6-Fluoro-2-naphthalenecarboxylic acid, 9CI

Synonym(s): 6-Fluoro-2-naphthoic acid, 8CI

CAS Registry Number: 5043-01-6

Structure by analogy with 1-Fluoro-2-naphthalenecarboxylic acid, [BJN20-M](#)

Molecular Formula: $C_{11}H_7FO_2$

Molecular Weight: 190.173

Accurate Mass: 190.043008

Percentage Composition: C 69.47%; H 3.71%; F 9.99%; O 16.83%

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 242-243.5° (238-240°)

>>Derivative: Me ester

Molecular Formula: $C_{12}H_9FO_2$

Molecular Weight: 204.2

Accurate Mass: 204.058658

Percentage Composition: C 70.58%; H 4.44%; F 9.30%; O 15.67%

Physical Description: Plates (petrol)

Melting Point: Mp 82-82.5°

>>Derivative: Nitrile

Synonym(s): 2-Cyano-6-fluoronaphthalene

CAS Registry Number: 13790-83-5

Molecular Formula: $C_{11}H_6FN$

Molecular Weight: 171.173

Accurate Mass: 171.048427

Percentage Composition: C 77.19%; H 3.53%; F 11.10%; N 8.18%

Physical Description: Needles (petrol)

Melting Point: Mp 130.5-131.5°

References:

Adcock, W. *et al.*, *Aust. J. Chem.*, 1965, **18**, 1351, (*synth*)

Dewar, M.J.S. *et al.*, *J.A.C.S.*, 1967, **89**, 379; 386, (*synth*, *nmr*)

Kitching, W. *et al.*, *J.O.C.*, 1977, **42**, 2411, (*cmr*)