



>>Entry Name: 4-Fluoro-1,2-benzenedicarboxylic acid, 9CI

Synonym(s): 4-Fluorophthalic acid, 8CI

CAS Registry Number: 320-97-8

Structure by analogy with 2-Fluoro-1,3-benzenedicarboxylic acid, [DZL42-O](#)

Molecular Formula: C₈H₅FO₄

Molecular Weight: 184.123

Accurate Mass: 184.017188

Percentage Composition: C 52.19%; H 2.74%; F 10.32%; O 34.76%

Physical Description: Cryst. (AcOH)

Melting Point: Mp 152-153°

>>Derivative: Anhydride

CAS Registry Number: 319-03-9

Molecular Formula: C₈H₃FO₃

Molecular Weight: 166.108

Accurate Mass: 166.006623

Percentage Composition: C 57.85%; H 1.82%; F 11.44%; O 28.90%

Physical Description: Cryst.

Melting Point: Mp 74-75°

Boiling Point: Bp₇₃₀ 261-262°. Bp₂₀ 148°

>>Derivative: Dinitrile

Synonym(s): 1,2-Dicyano-4-fluorobenzene

CAS Registry Number: 65610-14-2

Physical Description: Cryst. (heptane)

Melting Point: Mp 101°

Fluka: 47410

References:

Valkanias, G. *et al.*, *J.C.S.*, 1963, 3475, (*synth*)

Adcock, W. *et al.*, *Aust. J. Chem.*, 1976, **29**, 2571, (*synth*)

Markezich, R.L. *et al.*, *J.O.C.*, 1977, **42**, 3435, (*deriv*)

Oksengendler, I.G. *et al.*, *J. Org. Chem. USSR (Engl. Transl.)*, 1977, **13**, 2085, (*deriv*)