



>>Entry Name: 3,4,5,6-Tetrafluoro-1,2-benzenedicarboxylic acid, 9CI

Synonym(s): Tetrafluorophthalic acid, 8CI

CAS Registry Number: 652-03-9

Molecular Formula: C₈H₂F₄O₄

Molecular Weight: 238.095

Accurate Mass: 237.988922

Percentage Composition: C 40.36%; H 0.85%; F 31.92%; O 26.88%

Physical Description: Cryst. (xylene)

Melting Point: Mp 153-154°

Aldrich: 19680-0

>>Derivative: Dinitrile

Synonym(s): 1,2-Dicyano-3,4,5,6-tetrafluorobenzene

CAS Registry Number: 1835-65-0

Molecular Formula: C₈F₄N₂

Molecular Weight: 200.095

Accurate Mass: 199.99976

Percentage Composition: C 48.02%; F 37.98%; N 14.00%

Melting Point: Mp 81-86°

Aldrich: 19681-9

Sigma: T2404

>>Derivative: Anhydride

Synonym(s): 4,5,6,7-Tetrafluoro-1,3-isobenzofurandione, 9CI

CAS Registry Number: 652-12-0

Molecular Formula: C₈F₄O₃

Molecular Weight: 220.08

Accurate Mass: 219.978357

Percentage Composition: C 43.66%; F 34.53%; O 21.81%

Physical Description: Cryst. by subl.

Melting Point: Mp 94-95.5°

Other Data: Hydrolyses rapidly

Aldrich: 33901-6

>>Derivative: Imide

Synonym(s): 4,5,6,7-Tetrafluoro-1*H*-isoindole-1,3(2*H*)-dione, 9CI

CAS Registry Number: 652-11-9

Molecular Formula: C₈HF₄NO₂

Molecular Weight: 219.095

Accurate Mass: 218.994341

Percentage Composition: C 43.86%; H 0.46%; F 34.69%; N 6.39%; O 14.60%

Physical Description: Cryst. (benzotrifluoride)

Melting Point: Mp 220-222°

Boiling Point: Subl._{0.05} 120°

Rare Chemicals Library: S79825-8

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1159C; 1329A; 1543A, (*nmr*)

Gething, B. *et al.*, *J.C.S.*, 1961, 1574, (*synth, deriv, ir*)

Belf, L.J. *et al.*, *J.C.S.*, 1965, 3372, (*imide*)