



>>Entry Name: Fluorobenzene, 9CI, 8CI

Synonym(s): Phenyl fluoride

CAS Registry Number: 462-06-6

Related CAS Registry Numbers(s): 1423-10-5

PhF

Molecular Formula: C₆H₅F

Molecular Weight: 96.104

Accurate Mass: 96.037528

Percentage Composition: C 74.99%; H 5.24%; F 19.77%

Use/Importance: Used to control carbon content in steel manuf.

Melting Point: Mp -40°

Boiling Point: Bp 85.2°

Density: d₄²⁰ 1.02

Refractive Index: n_D²⁰ 1.4677

Hazard & Toxicity: Highly toxic vapour. Highly flammable, fl. p. -15°

Aldrich: F600-1

Fluka: 46662

Sigma: F4399

Supelco: R42-3220

References:

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Schiemann, G. *et al.*, *Chem. Ber.*, 1965, **98**, 3410, (*synth*)

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Cook, I.B., *Aust. J. Chem.*, 1989, **42**, 1493, (*cmr*)

Milner, D.J., *Synth. Commun.*, 1992, **22**, 73, (*synth*)

Thalladi, V.R. *et al.*, *J.A.C.S.*, 1998, **120**, 8702-8710, (*cryst struct*)

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