



>>Entry Name: (Pentafluorophenyl)hydrazine, 9CI

CAS Registry Number: 828-73-9

$(\text{C}_6\text{F}_5)\text{NHNH}_2$

Molecular Formula: $\text{C}_6\text{H}_3\text{F}_5\text{N}_2$

Molecular Weight: 198.095

Accurate Mass: 198.021638

Percentage Composition: C 36.38%; H 1.53%; F 47.95%; N 14.14%

Use/Importance: Derivatisation reagent for carbonyl compounds

Physical Description: Plates (petrol)

Melting Point: Mp 77-78°

Other Data: Dec. at 180°

Aldrich: 15638-8

Fluka: 76752

Sigma: P7014

>>Derivative: Hydrochloride

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 289-241°

>>Derivative: Benzylidene

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 130-131°

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **2**, 562C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1264C, (*ir*)

Brooke, G.M. *et al.*, *J.C.S.*, 1960, 1768, (*synth*)

Birchall, J.M. *et al.*, *J.C.S.*, 1962, 4966, (*synth, ir*)

Holland, D.G. *et al.*, *J.O.C.*, 1964, **29**, 1562, (*synth*)

Bruce, M.I., *J.C.S.(A)*, 1968, 1459, (*F-19 nmr*)

Lanthier, G.F. *et al.*, *Org. Mass Spectrom.*, 1972, **6**, 89, (*ms*)

Kobayashi, K. *et al.*, *J. Chromatogr.*, 1979, **176**, 118; 1980, **187**, 413, (*use*)

Rezvukhin, A.I. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1982, 94; *CA*, **98**, 16213f, (*cmr*)