>>**Entry Name: 1-Fluoro-4-(trifluoromethyl)benzene**
Synonym(s): *p*-Fluorobenzotrifluoride. α,α,α,4-Tetrafluorotoluene

CAS Registry Number: 402-44-8
Structure by analogy with 1-Fluoro-2-(trifluoromethyl)benzene, MFZ03-G

Molecular Formula: $C_7H_4F_4$
Molecular Weight: 164.102
Accurate Mass: 164.024912
Percentage Composition: C 51.23%; H 2.46%; F 46.31%
Physical Description: Liq.
Melting Point: Mp –42°
Boiling Point: Bp 102-105°
Refractive Index: n_D^{20} 1.4010
Hazard & Toxicity: Highly flammable, fl. p. 10°. Irritant to eyes, respiratory system and skin

Aldrich: 19535-9
Sigma: F0126

>>**Derivative:** Cr(*0*) complex

CAS Registry Number: 57821-01-9
Physical Description: Dark green solid
Melting Point: Mp 60.5-61°
Boiling Point: $Subl._{0.001}$ 56°
Other Data: Air-stable for several days

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 148B, *(nmr)*
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 998A, *(ir)*
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 917A, *(ir)*
Graves, V. *et al.*, *Inorg. Chem.*, 1976, **15**, 577, *(complex)*
Kobayashi, Y. *et al.*, *J. Fluorine Chem.*, 1986, **32**, 467, *(synth)*
Naumann, D. *et al.*, *J. Fluorine Chem.*, 1990, **47**, 283, *(synth, F-19 nmr)*