>>**Entry Name: 4-Fluoro-2-nitrophenol**

CAS Registry Number: 394-33-2
Structure by analogy with 2-Fluoro-4-nitrophenol, DTN58-R

Molecular Formula: $C_6H_4FNO_3$
Molecular Weight: 157.101
Accurate Mass: 157.017522
Percentage Composition: C 45.87%; H 2.57%; F 12.09%; N 8.92%; O 30.55%
Use/Importance: Fungicide, photographic coupler
Physical Description: Yellow needles or hexagonal cryst. (EtOH aq.)
Melting Point: Mp 73.5-74°

Aldrich: 34505-9

>>**Derivative:** Me ether
Synonym(s): 4-Fluoro-1-methoxy-2-nitrobenzene. 4-Fluoro-2-nitroanisole

CAS Registry Number: 445-83-0
Molecular Formula: $C_7H_6FNO_3$
Molecular Weight: 171.128
Accurate Mass: 171.033172
Percentage Composition: C 49.13%; H 3.53%; F 11.10%; N 8.18%; O 28.05%
Physical Description: Prisms (EtOH)
Melting Point: Mp 61.5-62°
Aldrich: 32476-0
Sigma: F7639

>>**Derivative:** Et ether
Synonym(s): 1-Ethoxy-4-fluoro-2-nitrobenzene. 4-Fluoro-2-nitrophenetole

Molecular Formula: $C_8H_8FNO_3$
Molecular Weight: 185.154
Accurate Mass: 185.048822
Percentage Composition: C 51.90%; H 4.35%; F 10.26%; N 7.56%; O 25.92%
Physical Description: Needles (EtOH)
Melting Point: Mp 33.7°
Boiling Point: Bp 225-227°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 733B, *(nmr)*
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1206A, *(ir)*
Swarts, F., *CA*, 1914, **8**, 680