>>**Entry Name: 5-Fluoro-2-nitrophenol**

CAS Registry Number: 446-36-6
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: Has fungicidal props.
Physical Description: Yellow needles (petrol)
Melting Point: Mp 32°
pKa Value: pK_a 6.07 (25°)
Other Data: Steam-volatile
Hazard & Toxicity: Hazardous exothermic synth. on large scale

Aldrich: 23324-2
Fluka: 47178
Sigma: F6637

>>**Derivative:** *O*-Benzoyl

Molecular Formula: $C_{13}H_8FNO_4$
Molecular Weight: 261.209
Accurate Mass: 261.043737
Percentage Composition: C 59.78%; H 3.09%; F 7.27%; N 5.36%; O 24.50%
Melting Point: Mp 110-111°

>>**Derivative:** Me ether
Synonym(s): 4-Fluoro-2-methoxy-1-nitrobenzene. 5-Fluoro-2-nitroanisole

CAS Registry Number: 448-19-1
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: Cryst. (petrol)
Melting Point: Mp 52°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1362A, *(ir)*
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 734A, *(nmr)*
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1208C, *(ir)*
Hodgson, H.H. *et al.*, *J.C.S.*, 1928, 1879, *(synth)*
Balasubramanian, A. *et al.*, *Can. J. Chem.*, 1966, **44**, 961, *(uv)*
Robinson, N.*, Chem. Br.*, 1987, **23**, 837, *(haz)*