



>>Entry Name: 3-Fluoro-4-nitrophenol

CAS Registry Number: 394-41-2

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%

Physical Description: Needles (H_2O or petrol)

Melting Point: Mp 42°

Aldrich: 18412-8

>>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%

Physical Description: Platelets

Melting Point: Mp 118°

>>Derivative: Me ether

Synonym(s): 2-Fluoro-4-methoxy-1-nitrobenzene. 3-Fluoro-4-nitroanisole

CAS Registry Number: 446-38-8

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: Needles (petrol)

Melting Point: Mp 56-57°

References:

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **2**, 734B, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1209A, (*ir*)

Hodgson, H.H. *et al.*, *J.C.S.*, 1928, 1879, (*synth*)