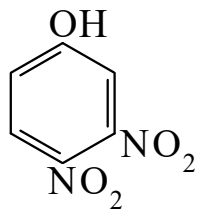
>>**Entry Name: 3,4-Dinitrophenol**
Synonym(s): δ-Dinitrophenol



CAS Registry Number: 577-71-9
Extra CAS Registry Numbers(s): 25550-58-7
Type of Compound Code(s): PA5000 PS7750 PS7850

Molecular Formula: $C_6H_4N_2O_5$
Molecular Weight: 184.108
Accurate Mass: 184.012023
Percentage Composition: C 39.14%; H 2.19%; N 15.22%; O 43.45%
Use/Importance: Used as EtOH soln. in gravimetric detn. of Zr; acid base indicator
Physical Description: Yellowish needles (H_2O)
Melting Point: Mp 134°
Solubility: Sol. EtOH, Et_2O; sl. sol. H_2O
pKa Value: pK_a 5.42 (25°)
Hazard & Toxicity: Potentially explosive. May cause dermatitis. LD_{50} (rat, ipr) 98 mg/kg

Fluka: 42195
Supelco: R42-8490

>>**Derivative:** Me ether
Synonym(s): 4-Methoxy-1,2-dinitrobenzene, 9CI. 3,4-Dinitroanisole, 8CI

CAS Registry Number: 4280-28-8
Molecular Formula: $C_7H_6N_2O_5$
Molecular Weight: 198.135
Accurate Mass: 198.027673
Percentage Composition: C 42.43%; H 3.05%; N 14.14%; O 40.38%
Physical Description: Yellow needles
Melting Point: Mp 70°

>>**Derivative:** Et ether
Synonym(s): 4-Ethoxy-1,2-dinitrobenzene. 3,4-Dinitrophenetole

Molecular Formula: $C_8H_8N_2O_5$
Molecular Weight: 212.162
Accurate Mass: 212.043323
Percentage Composition: C 45.29%; H 3.80%; N 13.20%; O 37.71%
Melting Point: Mp 87°

References:

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