



>>Entry Name: **2,4-Dinitro-1-naphthol**, 8Cl

Synonym(s): 2,4-Dinitro-1-naphthalenol, 9Cl

CAS Registry Number: 605-69-6

Structure by analogy with 1,5-Dinitro-2-naphthol, [FNZ65-F](#)

Molecular Formula: C₁₀H₆N₂O₅

Molecular Weight: 234.168

Accurate Mass: 234.027673

Percentage Composition: C 51.29%; H 2.58%; N 11.96%; O 34.16%

Use/Importance: Biological stain, dyestuff

Physical Description: Yellow needles (EtOH or CHCl₃)

Melting Point: Mp 140° (137.5°)

Solubility: Spar. sol. Et₂O, EtOH, C₆H₆, H₂O

Hazard & Toxicity: Toxic by skin absorption: human reproductive effects

Aldrich: 37776-7

Fluka: 42150

Sigma: M0783

>>Derivative: Na salt

Synonym(s): Martius yellow

Use/Importance: Dyestuff

>>Derivative: Me ether

Synonym(s): 1-Methoxy-2,4-dinitronaphthalene

Molecular Formula: C₁₁H₈N₂O₅

Molecular Weight: 248.195

Accurate Mass: 248.043323

Percentage Composition: C 53.23%; H 3.25%; N 11.29%; O 32.23%

Physical Description: Yellow needles

Melting Point: Mp 97°

References:

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Bohme, A. *et al.*, *Chem. Ber.*, 1959, **92**, 366, (*synth*)

Crecely, R.W. *et al.*, *J. Magn. Reson.*, 1970, **3**, 103, (*nmr*)

Sefton, H.D. *et al.*, *Aust. J. Chem.*, 1975, **28**, 701, (*uv*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DUX800