



>>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: C<sub>10</sub>H<sub>6</sub>N<sub>2</sub>O<sub>5</sub>

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 CHCl<sub>3</sub>)

Melting Point: Mp 140° (137.5°)

Solubility: Spar. sol. Et<sub>2</sub>O, EtOH, C<sub>6</sub>H<sub>6</sub>, H<sub>2</sub>O

**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: C<sub>11</sub>H<sub>8</sub>N<sub>2</sub>O<sub>5</sub>

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:

Morgan, G.T. *et al.*, *J.C.S.*, 1919, **115**, 1126, (*synth*)

*Elsevier's Encycl. Org. Chem.*, Ser III, Elsevier, 1950, **128**, 1568, (*bibl*)

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*)

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