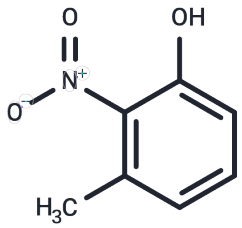
# Data Sheet (Cat.No.T21287)

TargetMol

## 3-Methyl-2-nitrophenol

### Chemical Properties



CAS No. : 4920-77-8

Formula: C7H7NO3

Molecular Weight: 153.14

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | 3-Methyl-2-nitrophenol is a low-specificity UDP-glucuronosyltransferase substrate and is widely used in biochemical experiments and drug synthesis research. |
| Targets(IC50) | Others |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 4 mg/mL (26.12 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 6.530 mL | 32.6499 mL | 65.2997 mL |
| 5 mM | 1.306 mL | 6.530 mL | 13.0599 mL |
| 10 mM | 0.653 mL | 3.265 mL | 6.530 mL |
| 50 mM | 0.1306 mL | 0.653 mL | 1.306 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Olariu RI, et al. FT-IR product study of the reactions of NO3 radicals with ortho-, meta-, and para-cresol. Environ Sci Technol. 2013 Jul 16;47(14):7729-38.
Mahadevan D, et al. Spectroscopic (FT-IR, FT-Raman and UV-vis) investigation and frontier molecular orbitals analysis on 3-methyl-2-nitrophenol using hybrid computational calculations. Spectrochim Acta A Mol Biomol Spectrosc. 2012 Feb;86:139-51.
Chen J, et al. Near-ultraviolet absorption cross sections of nitrophenols and their potential influence on tropospheric oxidation capacity. J Phys Chem A. 2011 Nov 10;115(44):12235-42.
Bejan I, et al. Investigations on the gas-phase photolysis and OH radical kinetics of methyl-2-nitrophenols. Phys Chem Chem Phys. 2007 Nov 14;9(42):5686-92.



Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481