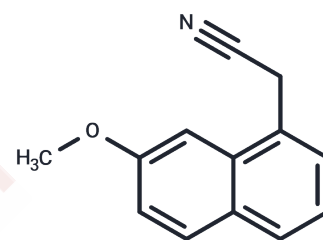


## 7-Methoxy-1-naphthylacetonitrile

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 138113-08-3   |
| Formula:          | C <sub>13</sub> H <sub>11</sub> NO  |
| Molecular Weight: | 197.23  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |  |
|---------------|--|
| Description   | 7-Methoxy-1-naphthylacetonitrile is one of the impurities of agomelatine, an antidepressant. |
| Targets(IC50) | Others   |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 45 mg/mL (228.16 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 5.0702 mL | 25.3511 mL | 50.7022 mL |
| 5 mM  | 1.014 mL  | 5.0702 mL  | 10.1404 mL |
| 10 mM | 0.507 mL  | 2.5351 mL  | 5.0702 mL  |
| 50 mM | 0.1014 mL | 0.507 mL   | 1.014 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

- Yingjun Zhang, et al. Sulfonamide derivatives and pharmaceutical applications thereof. EP3134392B1  
 Plachká K, et al. Development, validation and comparison of UHPSFC and UHPLC methods for the determination of agomelatine and its impurities. J Pharm Biomed Anal. 2016 Jun 5;125:376-84.

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