

## Gramine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Gramine

**Catalog No.:** CFN98111

**Cas No.:** 87-52-5

**Purity:** >=98%

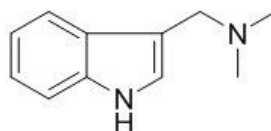
**M.F:** C<sub>11</sub>H<sub>14</sub>N<sub>2</sub>

**M.W:** 174.25

**Physical Description:** Cryst.

**Synonyms:** 3-(Dimethylaminomethyl)indole; (1H-Indol-3-ylmethyl)-dimethyl-amine;

N,N-dimethyl-3-amino-methylindole.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The herbs of *Arundo donax* L.

### [ Biological Activity or Inhibitors ]

Gramine, a well-known allelochemical(natural plant toxin), can effectively inhibit the growth of *Microcystis aeruginosa*, the phytotoxicity of gramine on *M. aeruginosa* may be due to oxidative damage via oxidation of ROS.<sup>[1]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: Buffer solution(NaH<sub>2</sub>PO<sub>4</sub>)-Methanol=70:30 ;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 275 nm.

## **[ Storage ]**

2-8℃, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Yu H, Hu H Y, Xing X, *et al. Aquat. Toxicol.*, 2009, 91(3):262-9.

[2] Ding L L, Wang S K, Zang N. *Fine Chemical Intermediates*, 2006,36(5):70-2.

## **[ Contact ]**

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