

Certificate of Analysis

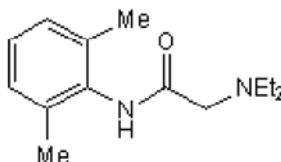
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Product Name: Lidocaine
CAS Number: 137-58-6
IUPAC Name: 2-Diethylamino-*N*-(2,6-dimethylphenyl)acetamide

Catalog No.: 3057 **Batch No.:** 2
EC Number: 205-302-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₂N₂O
Batch Molecular Weight: 234.34
Physical Appearance: White solid
Solubility: ethanol to 100 mM
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.76	9.46	11.95
Found	71.66	9.46	11.99

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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IUPAC Name: 2-Diethylamino-*N*-(2,6-dimethylphenyl)acetamide

Catalog No.: 3057
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Description:

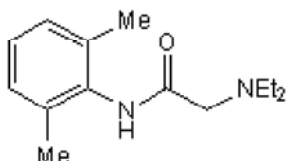
Anesthetic and class Ib antiarrhythmic agent. Blocks voltage-gated sodium channels in the inactivated state.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₄H₂₂N₂O
 Batch Molecular Weight: 234.34
 Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 100 mM
 DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Sarraf et al (2003) Tedisamil and lidocaine enhance each other's antiarrhythmic activity against ischaemia-induced arrhythmias in rats. *Br.J.Pharmacol.* **139** 1389. PMID: 12922925.

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