

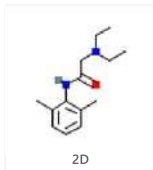
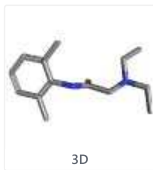




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Get the latest research from NIH: <https://www.nih.gov/coronavirus>.



COMPOUND SUMMARY

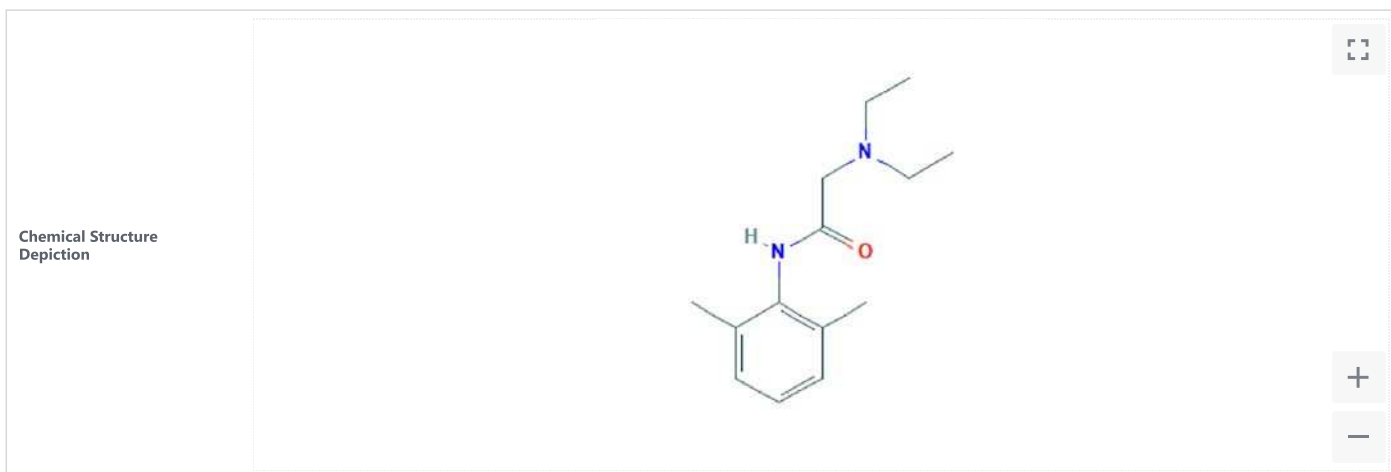
Lidocaine

PubChem CID	3676
Structure	   <p>2D 3D Crystal</p> <p>Find Similar Structures</p>
Chemical Safety	 <p>Irritant</p> <p>Laboratory Chemical Safety Summary (LCSS) Datasheet</p>
Molecular Formula	C ₁₄ H ₂₂ N ₂ O
Synonyms	<p>lidocaine 137-58-6 Lignocaine Xylocaine 2-(Diethylamino)-N-(2,6-dimethylphenyl)acetamide</p> <p>More...</p>
Molecular Weight	234.34 g/mol
Dates	<p>Modify Create</p> <p>2020-11-15 2005-03-25</p>
<p>Lidocaine is a synthetic aminoethylamide with local anesthetic and antiarrhythmic properties. Lidocaine stabilizes the neuronal membrane by binding to and inhibiting voltage-gated sodium channels, thereby inhibiting the ionic fluxes required for the initiation and conduction of impulses and effecting local anesthesia.</p> <p>▶ NCI Thesaurus (NCIt)</p> <p>The amide local anesthetics including lidocaine, bupivacaine and ropivacaine are commonly used for pain control during minor surgery or invasive procedures such as biopsies, small excisions or dental work. These local anesthetics have not been linked to serum enzyme elevations, but when given as constant infusions or repeated injections have been occasionally mentioned as possible causes of clinically apparent liver injury.</p> <p>▶ LiverTox</p> <p>Lidocaine is the monocarboxylic acid amide resulting from the formal condensation of N,N-diethylglycine with 2,6-dimethylaniline. It has a role as a local anaesthetic, an anti-arrhythmia drug, an environmental contaminant, a xenobiotic and a drug allergen. It is a monocarboxylic acid amide, a tertiary amino compound and a member of benzenes. It derives from a glycinamide.</p> <p>▶ ChEBI</p>	

1 Structures

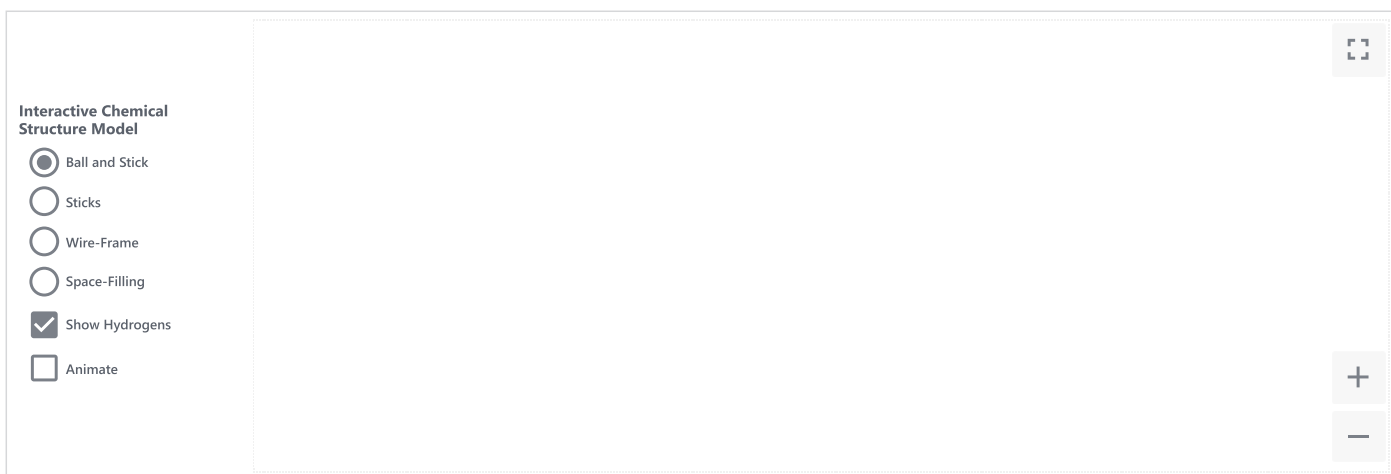


1.1 2D Structure



► PubChem

1.2 3D Conformer



► PubChem

1.3 Crystal Structures



Showing 1 of 2 View More

CCDC Number	636633
Crystal Structure Data	DOI:10.5517/ccpcgk1
Crystal Structure Depiction	

Associated Article [DOI:10.1107/S1600536807001523](https://doi.org/10.1107/S1600536807001523)

▶ [The Cambridge Structural Database](#)

2 Names and Identifiers

2.1 Computed Descriptors

2.1.1 IUPAC Name

2-(diethylamino)-N-(2,6-dimethylphenyl)acetamide

Computed by LexiChem 2.6.6 (PubChem release 2019.06.18)

[PubChem](#)

2.1.2 InChI

InChI=1S/C₁₄H₂₂N₂O/c1-5-16(6-2)10-13(17)15-14-11(3)8-7-9-12(14)4/h7-9H,5-6,10H2,1-4H3,(H,15,17)

Computed by InChI 1.0.5 (PubChem release 2019.06.18)

[PubChem](#)

2.1.3 InChI Key

NNJVILVZKWQKPM-UHFFFAOYSA-N

Computed by InChI 1.0.5 (PubChem release 2019.06.18)

[PubChem](#)

2.1.4 Canonical SMILES

CCN(CC)CC(=O)NC1=C(C=CC=C1C)C

Computed by OEChem 2.1.5 (PubChem release 2019.06.18)

[PubChem](#)

2.2 Molecular Formula

C₁₄H₂₂N₂O

Computed by PubChem 2.1 (PubChem release 2019.06.18)

[PubChem](#)

2.3 Other Identifiers

2.3.1 CAS

137-58-6

[ChemIDplus](#); [DrugBank](#); [DTP/NCI](#); [EPA Chemicals under the TSCA](#); [EPA DSSTox](#); [European Chemicals Agency \(ECHA\)](#); [Hazardous Substances Data Bank \(HSDB\)](#); [Human Metabolome Database \(HMDB\)](#)

2.3.2 Related CAS

[6108-05-0](#) (mono-hydrochloride, mono-hydrate)

[73-78-9](#) (mono-hydrochloride)

[ChemIDplus](#)

2.3.3 Deprecated CAS

8059-42-5, 8059-66-3, 91484-71-8

[ChemIDplus](#)

2.3.4 European Community (EC) Number

205-302-8

[European Chemicals Agency \(ECHA\)](#)



40030

[▶ DTP/NCI](#)

2.3.6 UNII



98PI200987

[▶ FDA/SPL Indexing Data](#)

2.3.7 DSSTox Substance ID



DTXSID1045166

[▶ EPA DSSTox](#)

2.3.8 Wikipedia



Lidocaine

[▶ Wikipedia](#)

2.4 Synonyms



2.4.1 MeSH Entry Terms



2-(Diethylamino)-N-(2,6-Dimethylphenyl)Acetamide	Octocaine
2-2EtN-2MePhAcN	Xylesthesin
Dalcaine	Xylocaine
Lidocaine	Xylocitin
Lidocaine Carbonate	Xyloneural
Lidocaine Carbonate (2:1)	
Lidocaine Hydrocarbonate	
Lidocaine Hydrochloride	
Lidocaine Monoacetate	
Lidocaine Monohydrochloride	
Lidocaine Monohydrochloride, Monohydrate	
Lidocaine Sulfate (1:1)	
Lignocaine	

[▶ MeSH](#)

2.4.2 Depositor-Supplied Synonyms



lidocaine	Gravocain	Xilina	Lignocainum	alpha-Diethylamino-2,6-dim
137-58-6	Isicaina	Xycaine	Octocaine	Lidocainum [INN-Latin]
Lignocaine	L-Caine	Xylotox	Remicaine	Lidocaina [INN-Spanish]
Xylocaine	Leostesin	Cito optadren	Xilocaina	EMBOLEX
2-(Diethylamino)-N-(2,6-dimethylphenyl)acetamide	Maricaine	Lida-Mantle	Xllina	2',6'-Acetoxylicidide, 2-(diethy
Lidoderm	Xylocain	Dalcaine	2-Diethylamino-N-(2,6-dimethylphenyl)acetamide	Lidocaton
Anestacon	Xylocitin	2-(Diethylamino)-2',6'-acetoxylicidide	Acetamide, 2-(diethylamino)-N-(2,6-dimethylphenyl)-	alfa-Dietilamino-2,6-dimetila
Esracaine	Solcain	Xyloneural (free base)	Lidocaine (VAN)	CHEBI:6456
Duncaine	Isicaine	Cuivasil	Diethylaminoaceto-2,6-xylicidide	HSDB 3350
Alphacaine	Xylesthesin	Dentipatch	ELA-Max	UNII-98PI200987
Cappicaine	Rucaina	Jetocaine	Xilocaina [Italian]	Xylocaine (TN)

[▶ PubChem](#)

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