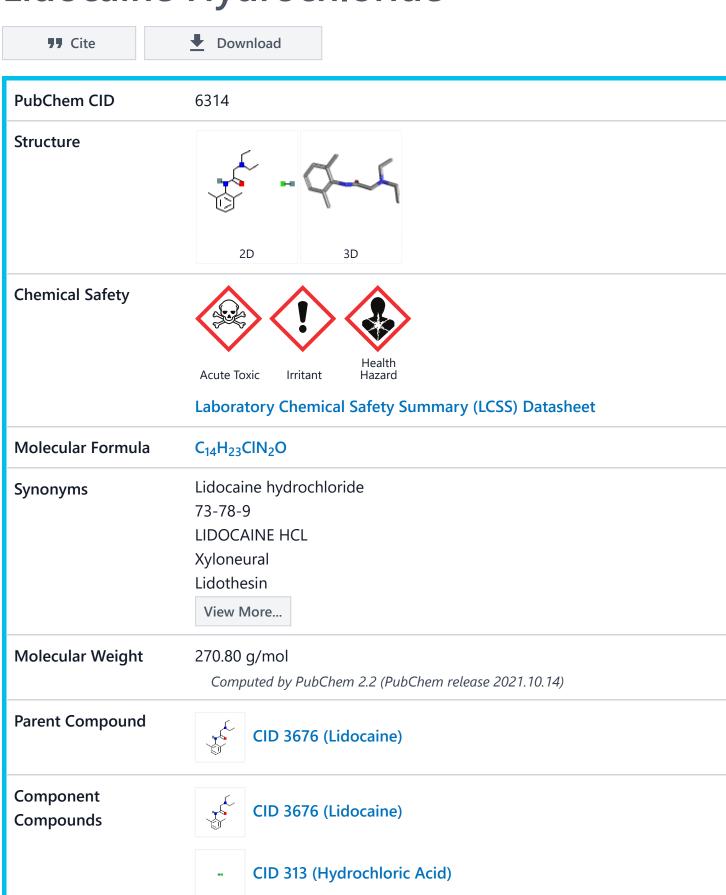


COMPOUND SUMMARY

Lidocaine Hydrochloride



Dates	Create: 2005-06-24	Modify: 2024-11-16
Description	Lidocaine Hy aminoethylar anesthetics. I nerve cell me excitable me conduction of Lidocaine hy	drochloride is the hydrochloride salt form of lidocaine, an mide and a prototypical member of the amide class Lidocaine interacts with voltage-gated Na+ channels in the embrane and blocks the transient increase in permeability of mbranes to Na+. This prevents the generation and of nerve impulses and produces a reversible loss of sensation. drochloride also exhibits class IB antiarrhythmic effects. The
	on the Purkir decreasing d • NCI These	ises the flow of sodium ions into myocardial tissue, especially nje network, during phase 0 of the action potential, thereby epolarization, automaticity and excitability. aurus (NCIt) hetic and cardiac depressant used as an antiarrhythmia agent.

Its actions are more intense and its effects more prolonged than those of PROCAINE but its duration of action is shorter than that of BUPIVACAINE

or PRILOCAINE.

• Medical Subject Headings (MeSH)

Contents

Title and Summary	
1 Structures	~
2 Biologic Description	
3 Names and Identifiers	~
4 Chemical and Physical Properties	~
5 Spectral Information	~
6 Related Records	~
7 Chemical Vendors	
8 Drug and Medication Information	~
9 Pharmacology and Biochemistry	~
10 Use and Manufacturing	~
11 Safety and Hazards	~
12 Toxicity	~
13 Literature	~

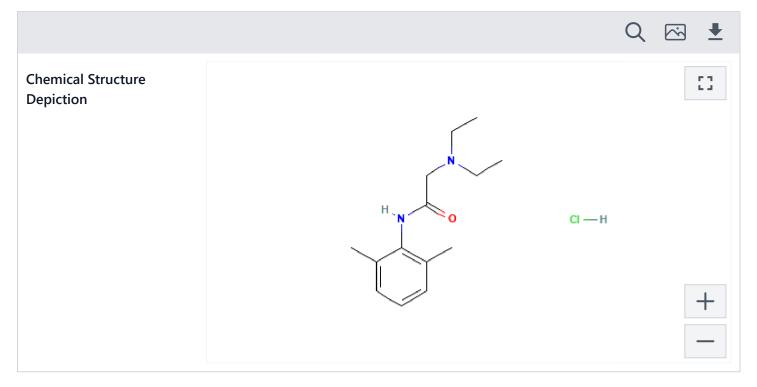


1 Structures

@ 4

1.1 2D Structure





▶ PubChem

1.2 3D Conformer

@ 4

3D Conformer of Parent



2 Biologic Description

@ [2

SVG Image	Et ₂ —Gly—NHPh(2,6-diMe)
	•HCI
IUPAC Condensed	N(Et2)Gly-NHPh(2,6-diMe).HCl
Sequence	G

▶ PubChem

3 Names and Identifiers	? Z
3.1 Computed Descriptors	? Z
3.1.1 IUPAC Name	② Z

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

Computed by Lexichem TK 2.7.0 (PubChem release 2021.10.14)

PubChem

3.1.2 InChI

@ 2

InChI=1S/C14H22N2O.CIH/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);1H

Computed by InChI 1.0.6 (PubChem release 2021.10.14)

PubChem

3.1.3 InChIKey	? 4
IYBQHJMYDGVZRY-UHFFFAOYSA-N	
Computed by InChI 1.0.6 (PubChem release 2021.10.14)	
▶ PubChem	
3.1.4 SMILES	? Z
CCN(CC)CC(=O)NC1=C(C=CC=C1C)C.CI	
Computed by OEChem 2.3.0 (PubChem release 2021.10.14)	
▶ PubChem	
3.2 Molecular Formula	(?) [S
$C_{14}H_{23}CIN_2O$	
Computed by PubChem 2.2 (PubChem release 2021.10.14)	
▶ PubChem	
3.3 Other Identifiers	? [2]
3.3.1 CAS	② 🗹
73-78-9	
► Australian Industrial Chemicals Introduction Scheme (AICIS); CAS Commo	on Chemistry; ChemIDplus; DTP/
6108-05-0	
European Chemicals Agency (ECHA)	
3.3.2 Related CAS	◎ 🗹
137-58-6 (Parent)	
▶ ChemIDplus	
2.2.2.5	<u>බ</u> [7
3.3.3 European Community (EC) Number	<u> </u>
200-803-8	
► European Chemicals Agency (ECHA)	

► European Chemicals Agency (ECHA)	
3.3.4 UNII	② ☑
EC2CNF7XFP	
► FDA Global Substance Registration System (GSRS)	
	0 -7
3.3.5 ChEMBL ID	◎ ☑
CHEMBL541521	
► ChEMBL	
3.3.6 DSSTox Substance ID	? Z
DTXSID4058782	
▶ EPA DSSTox	
3.3.7 KEGG ID	? Z
D02086	
► KEGG	
3.3.8 NCI Thesaurus Code	? Z
C48000	
NCI Thesaurus (NCIt)	
C90650	
► NCI Thesaurus (NCIt)	
3.3.9 NSC Number	? Z
757420	

612-079-4

▶ DTP/NCI

142440

▶ NLM RxNorm Terminology

1299236

▶ NLM RxNorm Terminology

3.3.11 Wikidata

? Z

Q27122094

Wikidata

3.4 Synonyms

? Z

3.4.1 MeSH Entry Terms

Lidocaine Monoacetate

Lidocaine Monohydrochloride



2-(Diethylamino)-N-(2,6-Dimethylphenyl)Acetamide
Lidocaine Sulfate (1:1)
2-2EtN-2MePhAcN
Lignocaine
Dalcaine
Lidocaine
Lidocaine
Carbonate
Lidocaine Carbonate
Lidocaine Carbonate (2:1)
Lidocaine Hydrocarbonate
Lidocaine Hydrochloride
Lidocaine Hydrochloride

Medical Subject Headings (MeSH)

Lidocaine Monohydrochloride, Monohydrate

3.4.2 Depositor-Supplied Synonyms



Lidocaine hydrochloride
73-78-9
LIDOCAINE HCL
Xyloneural
Lidothesin
Lignocaine hydrochloride
Xylocaine Viscous
Laryng-O-jet

Rucaina hydrochloride Xycaine hydrochloride Xylotox hydrochloride Duncaine hydrochloride Isicaine hydrochloride Lidocain hydrochloride Glydo Anestacon hydrochloride

Xylocitin hydrochloride
Lidothesin hydrochloride
Xylestesin hydrochloride
LIDOCAINE VISCOUS
LTA II KIT
PEDIATRIC LTA KIT
LARYNG-O-JET KIT
Lidocaine (hydrochloride)

LIDOPEN

Xylocard

Zingo

Xylocaine hydro

EC2CNF7XFP

UNII-EC2CNF7>

XYLOCAINE PRI

EINECS 200-803

▶ PubChem

4 Chemical and Physical Properties



4.1 Computed Properties



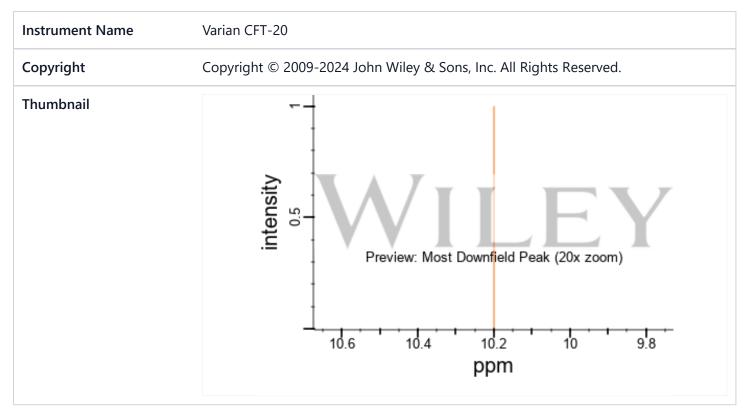
				•
Property Name	Property Value	Reference	•	
Molecular Weight	270.80 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)		
Hydrogen Bond Donor Count	2	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)		
Hydrogen Bond Acceptor Count	2	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)		
Rotatable Bond Count	5	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)		
Exact Mass	270.1498911 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)		
Monoisotopic Mass	270.1498911 g/mol	Computed by PubChem 2.2 (PubChem release 2021.10.14)		
Topological Polar Surface Area	32.3Ų	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)		
Heavy Atom Count	18	Computed by PubChem		
Formal Charge	0	Computed by PubChem		
Complexity	228	Computed by Cactvs 3.4.8.18 (PubChem release 2021.10.14)		
Isotope Atom Count	0	Computed by PubChem		
Defined Atom Stereocenter Count	0	Computed by PubChem		
Undefined Atom Stereocenter Count	0	Computed by PubChem		
Defined Bond Stereocenter Count	0	Computed by PubChem		
Undefined Bond Stereocenter Count	0	Computed by PubChem		
Covalently-Bonded Unit Count	2	Computed by PubChem		
Compound Is Canonicalized	Yes	Computed by PubChem (release 2021.10.14)		

4.2 Experimental Properties	?	Ø
4.2.1 Physical Description	?	C
Dry Powder		
► EPA Chemical Data Reporting (CDR)		
4.2.2 Collision Cross Section	?	C ⁷
155.4 Å ² [M+H] ⁺ [CCS Type: TW; Method: calibrated with polyalanine and drug standards] https://pubs.acs.org/doi/abs/10.1021/acs.analchem.7b01709		
▶ CCSbase		
4.3 Chemical Classes	?	Ø
4.3.1 Drugs	?	Ø
4.3.1.1 Human Drugs	?	Ø
Breast Feeding; Lactation; Milk, Human; Antiarrhythmics; Local Anesthetics		
▶ Drugs and Lactation Database (LactMed)		
Human drug -> Discontinued		
▶ Drugs@FDA		
Human drug -> Prescription		
► Drugs@FDA		
Human drug -> Prescription; Discontinued		
▶ Drugs@FDA		
Human drug -> Prescription; Discontinued; Active ingredient (LIDOCAINE HYDROCHLORIDE) • Drugs@FDA		
5 Spectral Information	?	Z

PubChem

5.1.1 1H NMR Spectra

② 区



SpectraBase

5.1.2 13C NMR Spectra

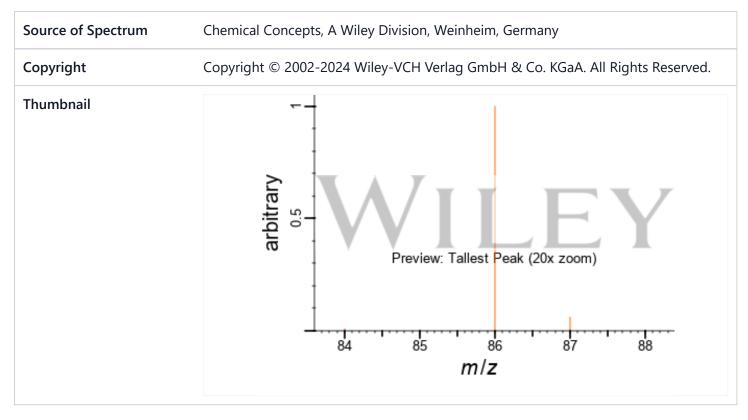
@ 4

Source of Sample	Aldrich Chemical Company, Inc., Milwaukee, Wisconsin
Copyright	Copyright © 1980, 1981-2024 John Wiley & Sons, Inc. All Rights Reserved.
Thumbnail	Preview: Tallest Peak (20x zoom) 54 52 50 48 46 44 ppm

@ [2

5.2.1 GC-MS

?	
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SpectraBase

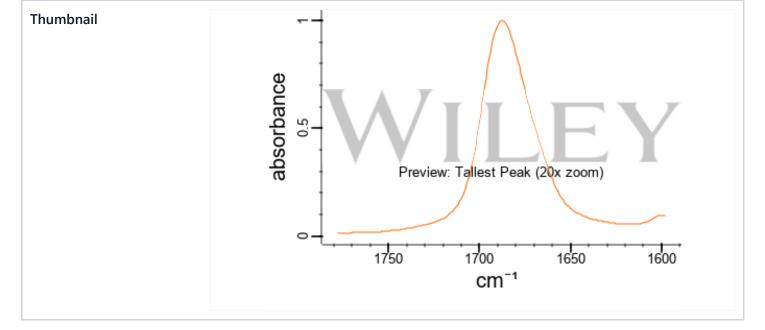
5.3 IR Spectra



5.3.1 FTIR Spectra

?	Z
\odot	ك

Technique	KBr WAFER
Source of Sample	Aldrich Chemical Company, Inc., Milwaukee, Wisconsin
Catalog Number	S56416
Copyright	Copyright © 1980, 1981-2024 John Wiley & Sons, Inc. All Rights Reserved.



SpectraBase

6 Related Records

? Z

6.1 Related Compounds with Annotation

②

Follow these links to do a live 2D search or do a live 3D search for this compound, sorted by annotation score. This section is deprecated (see here for details), but these live search links provide equivalent functionality to the table that was previously shown here.

PubChem

6.2 Parent Compound

@ 4



CID 3676 (Lidocaine)

PubChem

6.3 Component Compounds

@ 4



CID 3676 (Lidocaine)

- CID 313 (Hydrochloric Acid)

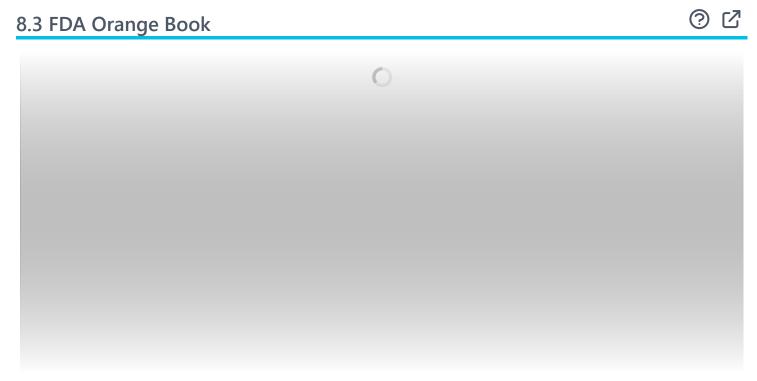
PubChem

Same Connectivity Count	4	
Same Parent, Connectivity Count	58	
Same Parent, Exact Count	46	
Mixtures, Components, and Neutralized Forms Count	2	
Similar Compounds (2D)	View in PubChem Search	
Similar Conformers (3D)	View in PubChem Search	
▶ PubChem		
6.5 Substances		? Z
		? Z
6.5.1 PubChem Referen	6.5.1 PubChem Reference Collection SID	
481107287		
▶ PubChem		
6.5.2 Related Substance	ces	@ 12
Same Count	135	
▶ PubChem		
, rusenem		
		@ r7
6.5.3 Substances by Ca	ategory	(P)

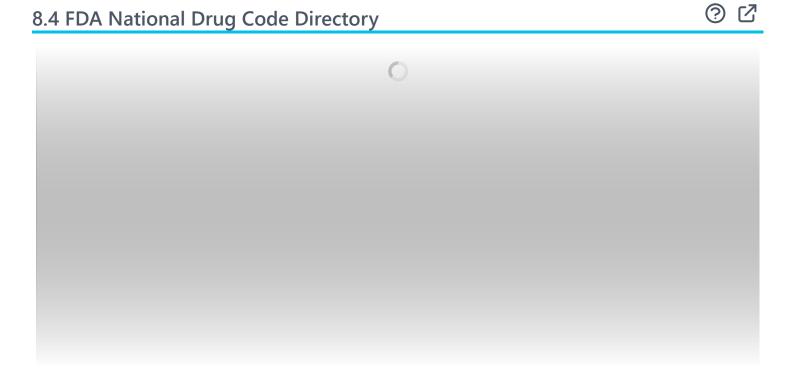
6.6 Entrez Crosslinks	? Z
Gene Count 9	
▶ PubChem	
7 Chemical Vendors	? Z
▶ PubChem	
8 Drug and Medication Information	? Z
8.1 Drug Classes	? Z
Breast Feeding; Lactation; Milk, Human; Antiarrhythmics; Local Anesthetics	
▶ Drugs and Lactation Database (LactMed)	
8.2 FDA Approved Drugs	② [Z
0	

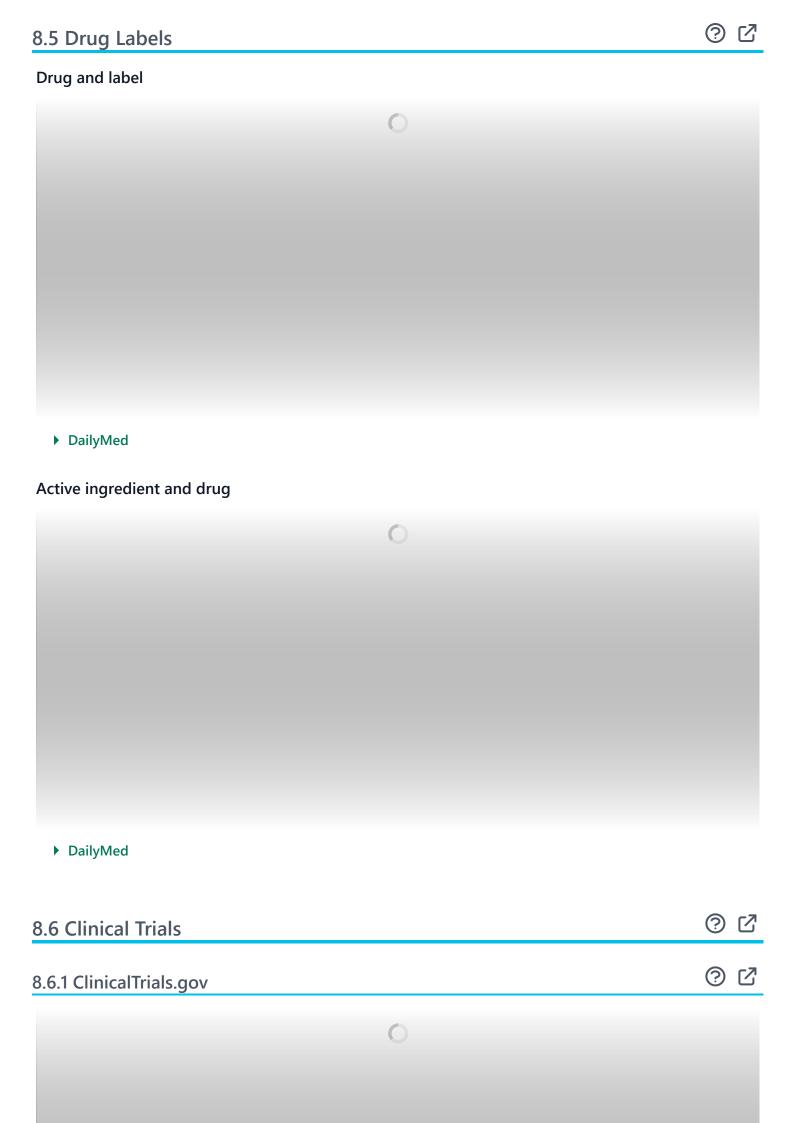
▶ PubChem

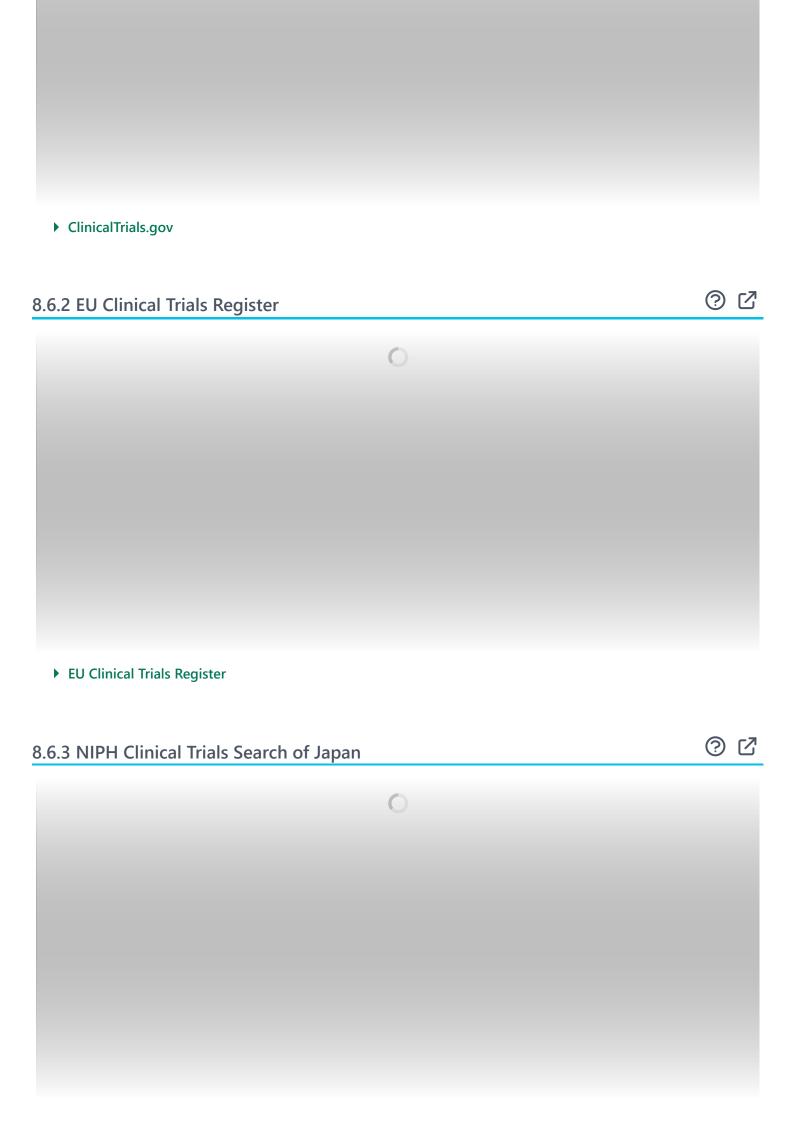




► FDA Orange Book







9 Pharmacology and Biochemistry

? [

9.1 MeSH Pharmacological Classification

Voltage-Gated Sodium Channel Blockers

A class of drugs that inhibit the activation of VOLTAGE-GATED SODIUM CHANNELS. (See all compounds classified as Voltage-Gated Sodium Channel Blockers.)

Medical Subject Headings (MeSH)

Anti-Arrhythmia Agents

Agents used for the treatment or prevention of cardiac arrhythmias. They may affect the polarization-repolarization phase of the action potential, its excitability or refractoriness, or impulse conduction or membrane responsiveness within cardiac fibers. Anti-arrhythmia agents are often classed into four main groups according to their mechanism of action: sodium channel blockade, beta-adrenergic blockade, repolarization prolongation, or calcium channel blockade. (See all compounds classified as Anti-Arrhythmia Agents.)

Medical Subject Headings (MeSH)

Anesthetics, Local

Drugs that block nerve conduction when applied locally to nerve tissue in appropriate concentrations. They act on any part of the nervous system and on every type of nerve fiber. In contact with a nerve trunk, these anesthetics can cause both sensory and motor paralysis in the innervated area. Their action is completely reversible. (From Gilman AG, et. al., Goodman and Gilman's The Pharmacological Basis of Therapeutics, 8th ed) Nearly all local anesthetics act by reducing the tendency of voltage-dependent sodium channels to activate. (See all compounds classified as Anesthetics, Local.)

Medical Subject Headings (MeSH)

9.2 FDA Pharmacological Classification

(2)

1 of 3	
Non-Proprietary Name	LIDOCAINE HCL
Pharmacological Classes	Amide Local Anesthetic [EPC]; Antiarrhythmic [EPC]; Local Anesthesia [PE]; Amides [CS]

National Drug Code (NDC) Directory

2 of 3	
Non-Proprietary Name	LIDOCAINE HYDROCHLORIDE

Pharmacological Classes	Amides [CS]; Local Anesthesia [PE]; Antiarrhythmic [EPC]; Amide Local Anesthetic				
	[EPC]				

▶ National Drug Code (NDC) Directory

3 of 3	
Non-Proprietary Name	LIDOCAINE HYDROCHLORIDE ANHYDROUS
Pharmacological Classes	Antiarrhythmic [EPC]; Amide Local Anesthetic [EPC]; Amides [CS]; Local Anesthesia [PE]

▶ National Drug Code (NDC) Directory

10 Use and Manufacturing 10.1 Uses ② ②

EPA CPDat Chemical and Product Categories

The Chemical and Products Database, a resource for exposure-relevant data on chemicals in consumer products, Scientific Data, volume 5, Article number: 180125 (2018), DOI:10.1038/sdata.2018.125

▶ EPA Chemical and Products Database (CPDat)

10.1.1 Use Classification

? Z

Human Drugs -> FDA Approved Drug Products with Therapeutic Equivalence Evaluations (Orange Book) -> Active Ingredients

▶ FDA Orange Book

Household & Commercial/Institutional Products

Information on 1 consumer products that contain Lidocaine hydrochloride in the following categories is provided:

- Pet Care
 - ► Consumer Product Information Database (CPID)

10.2 U.S. Production

② (

Aggregated Product Volume

2018: 9,750 lb 2017: 28,500 lb 2016: 5,150 lb

https://www.epa.gov/chemical-data-reporting

► EPA Chemical Data Reporting (CDR)

10.3 General Manufacturing Information

irritation]



EPA TSCA Commercial Activity Status

Acetamide, 2-(diethylamino)-N-(2,6-dimethylphenyl)-, hydrochloride (1:1): ACTIVE

▶ EPA Chemicals under the TSCA

11 Safety and Hazards

@ [2

11.1 Hazards Identification

? [2

11.1.1 GHS Classification

?) [2

Pictogram(s) Acute Toxic Irritant Health Hazard Signal Danger GHS Hazard Statements H301 (46.3%): Toxic if swallowed [Danger Acute toxicity, oral] H302 (53.7%): Harmful if swallowed [Warning Acute toxicity, oral]

H315 (40.3%): Causes skin irritation [Warning Skin corrosion/irritation]

H319 (40.3%): Causes serious eye irritation [Warning Serious eye damage/eye

	H334 (37.3%): May cause allergy or asthma symptoms or breathing difficulties if inhaled [Danger Sensitization, respiratory] H335 (40.3%): May cause respiratory irritation [Warning Specific target organ toxicity, single exposure; Respiratory tract irritation] H412 (37.3%): Harmful to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]
Precautionary Statement Codes	P233, P260, P261, P264, P264+P265, P270, P271, P273, P280, P284, P301+P316, P301+P317, P302+P352, P304+P340, P305+P351+P338, P319, P321, P330, P332+P317, P337+P317, P342+P316, P362+P364, P403, P403+P233, P405, and P501 (The corresponding statement to each P-code can be found at the GHS Classification page.)
ECHA C&L Notifications Summary	Aggregated GHS information provided per 67 reports by companies from 5 notifications to the ECHA C&L Inventory. Each notification may be associated with multiple companies.
	Information may vary between notifications depending on impurities, additives, and other factors. The percentage value in parenthesis indicates the notified classification ratio from companies that provide hazard codes. Only hazard codes with percentage values above 10% are shown.

► European Chemicals Agency (ECHA)

11.1.2 Hazard Classes and Categories

@ (

Acute Tox. 3 (46.3%)

Acute Tox. 4 (53.7%)

Skin Irrit. 2 (40.3%)

Eye Irrit. 2 (40.3%)

Resp. Sens. 1 (37.3%)

STOT SE 3 (40.3%)

Aquatic Chronic 3 (37.3%)

► European Chemicals Agency (ECHA)

Acute Tox. 3 (82.5%)

Acute Tox. 4 (17.5%)

► European Chemicals Agency (ECHA)

11.2 Regulatory Information



New Zealand EPA Inventory of Chemical Status

Lidocaine hydrochloride: Does not have an individual approval but may be used under an appropriate group standard

► New Zealand Environmental Protection Authority (EPA)



Chemical Assessment

IMAP assessments - **Acetamide**, 2-(diethylamino)-N-(2,6-dimethylphenyl)-, **monohydrochloride**: Environment tier I assessment

IMAP assessments - **Acetamide**, 2-(diethylamino)-N-(2,6-dimethylphenyl)-, **monohydrochloride**: Human health tier I assessment

► Australian Industrial Chemicals Introduction Scheme (AICIS)

12 Toxicity 12.1 Toxicological Information ② 位 12.1.1 Effects During Pregnancy and Lactation ② 位

Summary of Use during Lactation

Lidocaine concentrations in milk during continuous IV infusion, epidural administration and in high doses as a local anesthetic are low and the **lidocaine** is poorly absorbed by the infant. **Lidocaine** is not expected to cause any adverse effects in breastfed infants. No special precautions are required.

Lidocaine during labor and delivery with other anesthetics and analgesics has been reported by some to interfere with breastfeeding. However, this assessment is controversial and complex because of the many different combinations of drugs, dosages and patient populations studied as well as the variety of techniques used and deficient design of many of the studies. Overall it appears that with good breastfeeding support epidural lidocaine with or without fentanyl or one of its derivatives has little or no adverse effect on breastfeeding success. Labor pain medication may delay the onset of lactation.

Effects in Breastfed Infants

Lidocaine in doses ranging from 60 to 500 mg administered to the mother by intrapleural or epidural routes during delivery had no effect on their 14 infants who were either breastfed or received their mother's breastmilk by bottle.

A neurology group reported using 1% **lidocaine** for peripheral nerve blocks in 14 nursing mothers with migraine. They reported no infant side effects and considered the procedure safe during breastfeeding.

• Effects on Lactation and Breastmilk

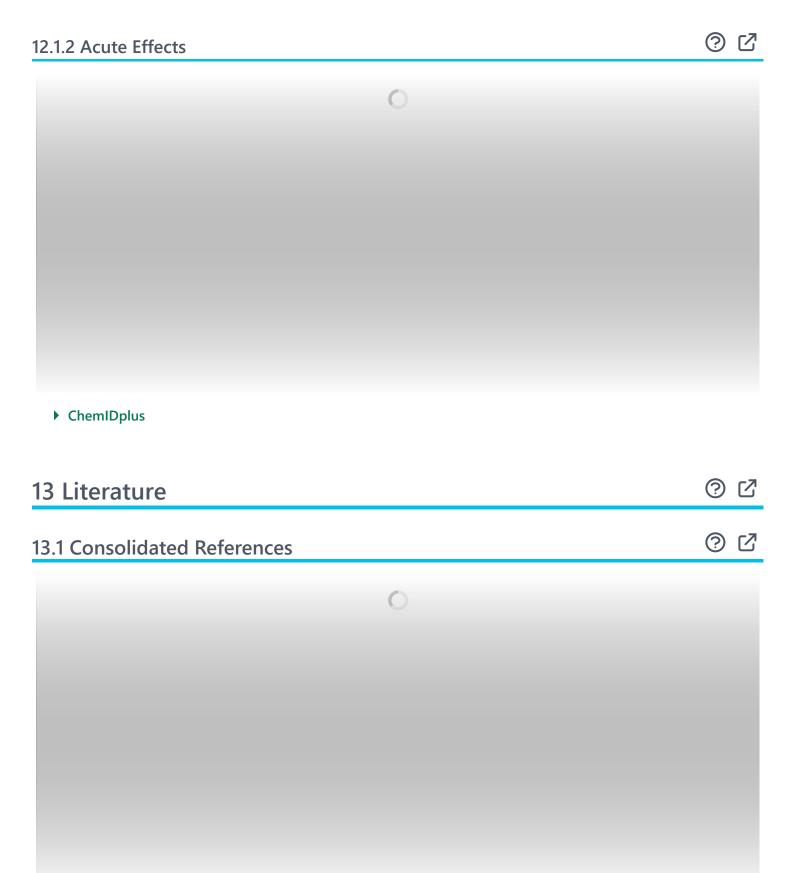
A randomized study compared three groups of women undergoing elective cesarean section who received subcutaneous infusion of 20 mL of **lidocaine** 1% plus **epinephrine** 1:100:000 at the incision site. One group received the **lidocaine** before incision, one group received the **lidocaine** after the incision, and the third received 10 mL before the incision and 10 mL after. Women in the pre-and post-incision administration group initiated breastfeeding earlier than those in the pre-incision administration (3.4 vs 4.1 hours). There was no difference between the post-incision administration group and the other groups in time to breastfeeding initiation.

A national survey of women and their infants from late pregnancy through 12 months postpartum compared the time of lactogenesis II in mothers who did and did not receive pain medication during

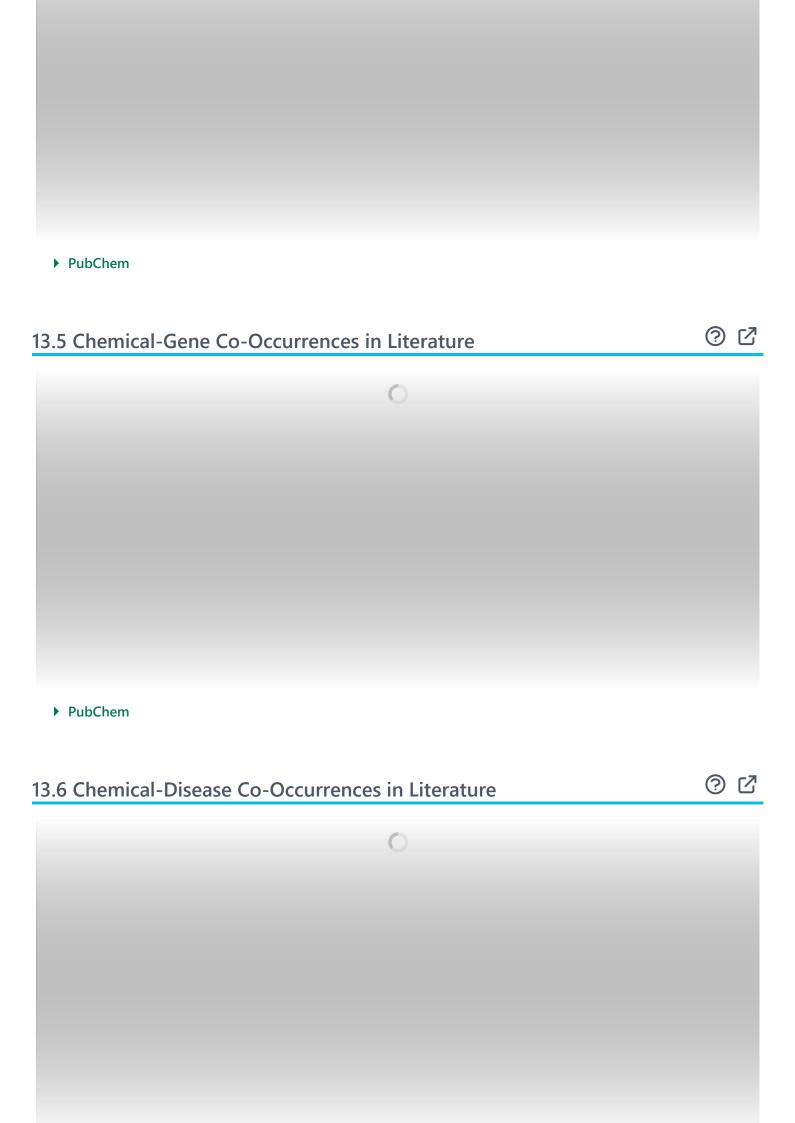
labor. Categories of medication were spinal or epidural only, spinal or epidural plus another medication, and other pain medication only. Women who received medications from any of the categories had about twice the risk of having delayed lactogenesis II (>72 hours) compared to women who received no labor pain medication.

An Egyptian study compared **lidocaine** 2% (n = 75) to **lidocaine** 2% plus **epinephrine** 1:200,000 (n = 70) as a wound infiltration following cesarean section. Patients who received **epinephrine** in combination with **lidocaine** began breastfeeding at 89 minutes following surgery compared to 132 minutes for those receiving **lidocaine** alone. The difference was statistically significant.

Drugs and Lactation Database (LactMed)



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▶ FDA Orange Book

14.4 Chemical Co-Occurrences in Patents

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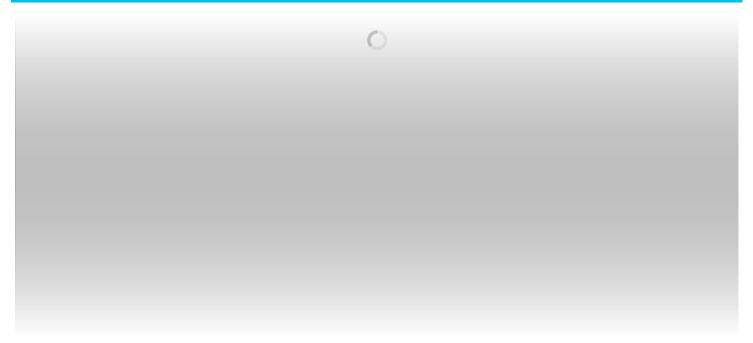


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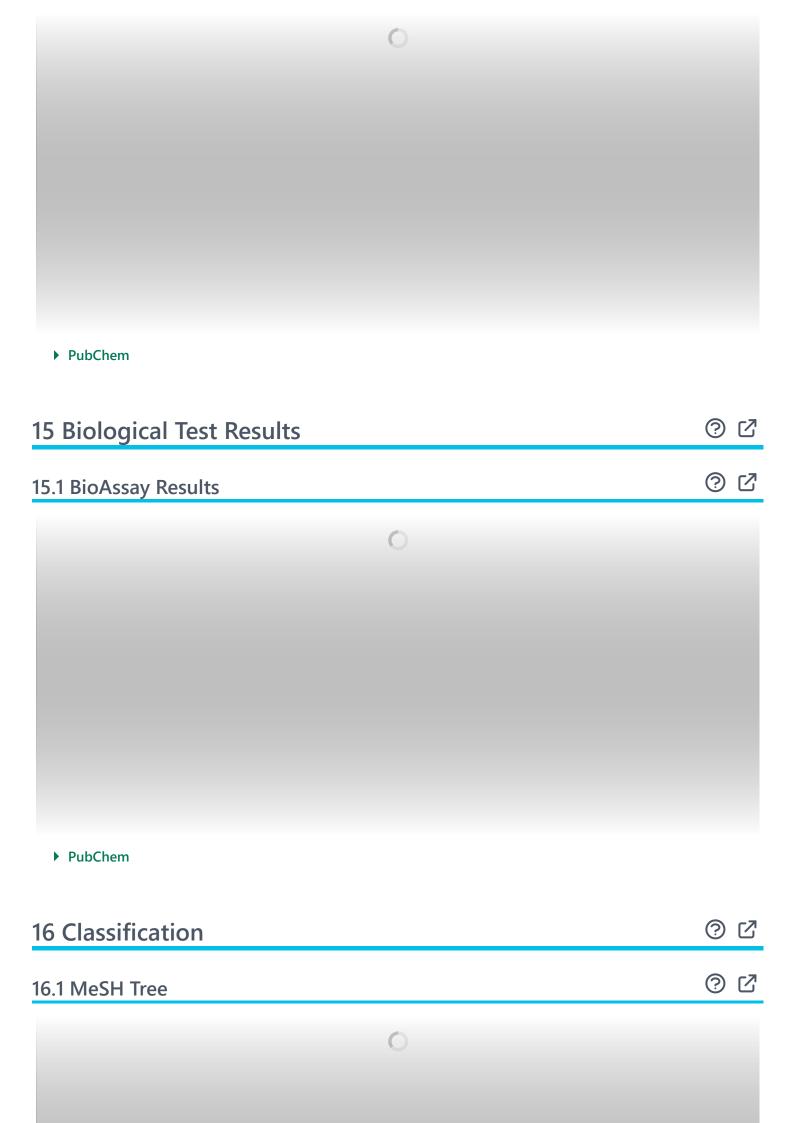
▶ PubChem

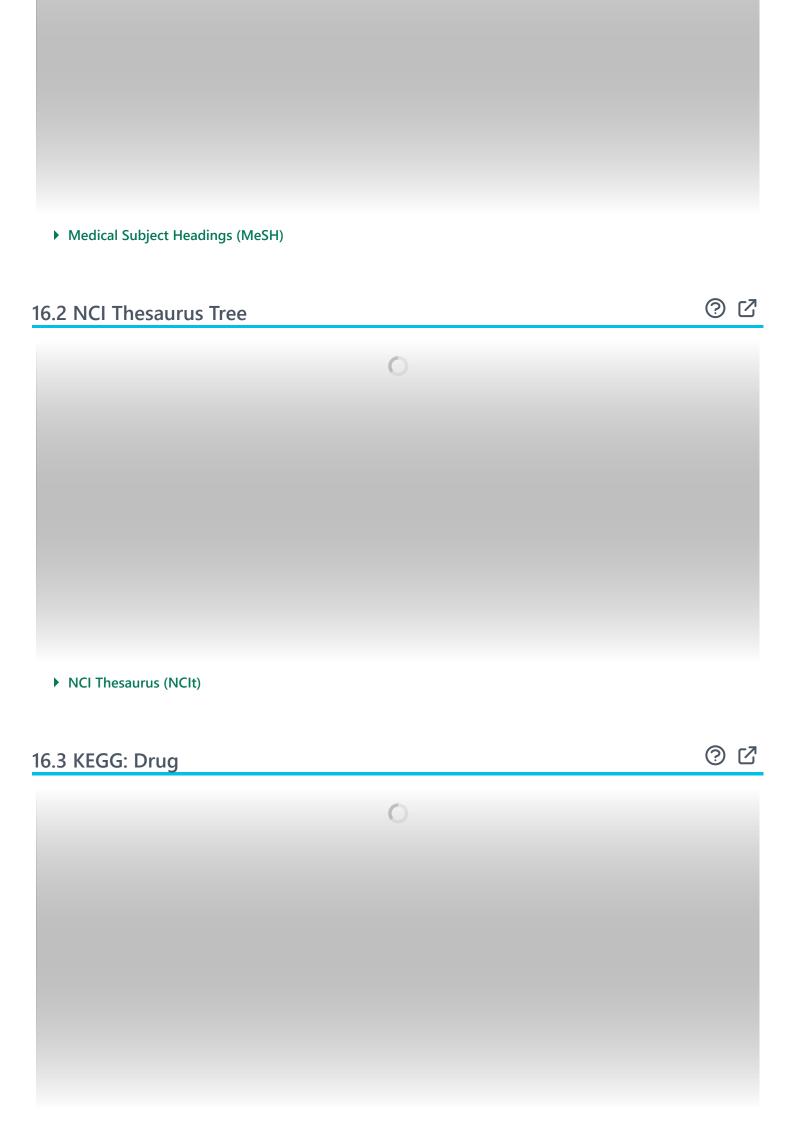
14.5 Chemical-Disease Co-Occurrences in Patents

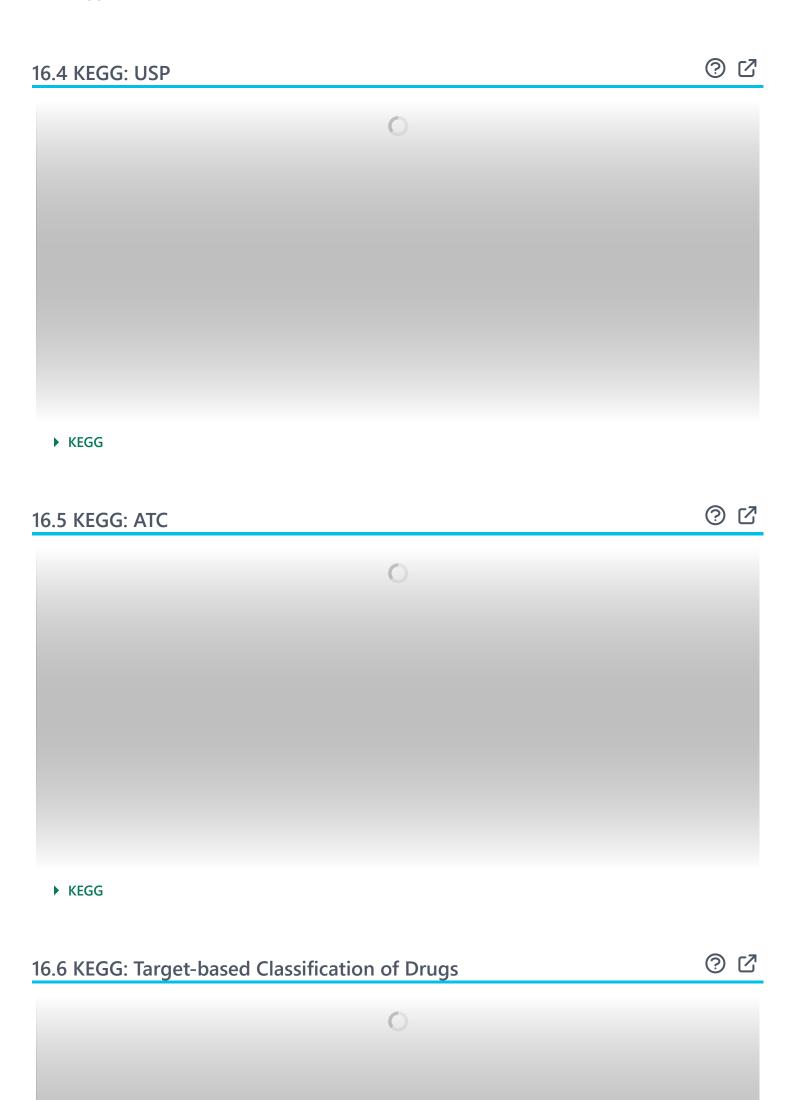
@ 4

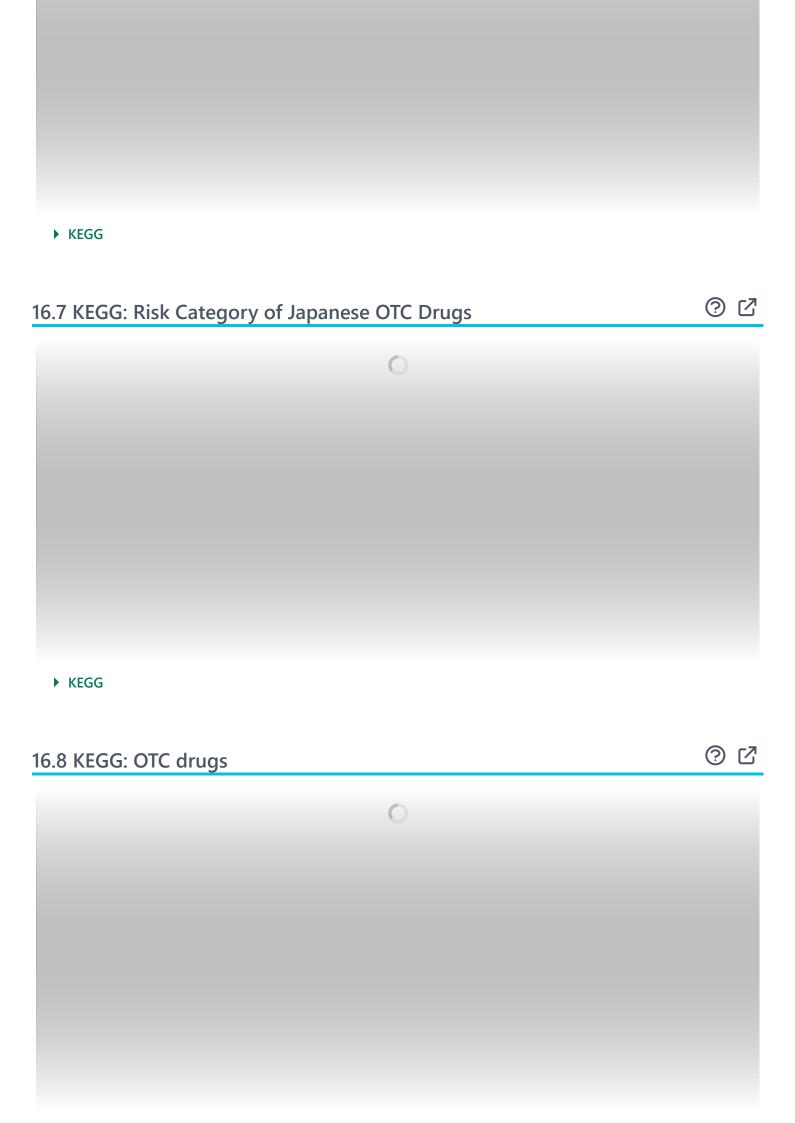


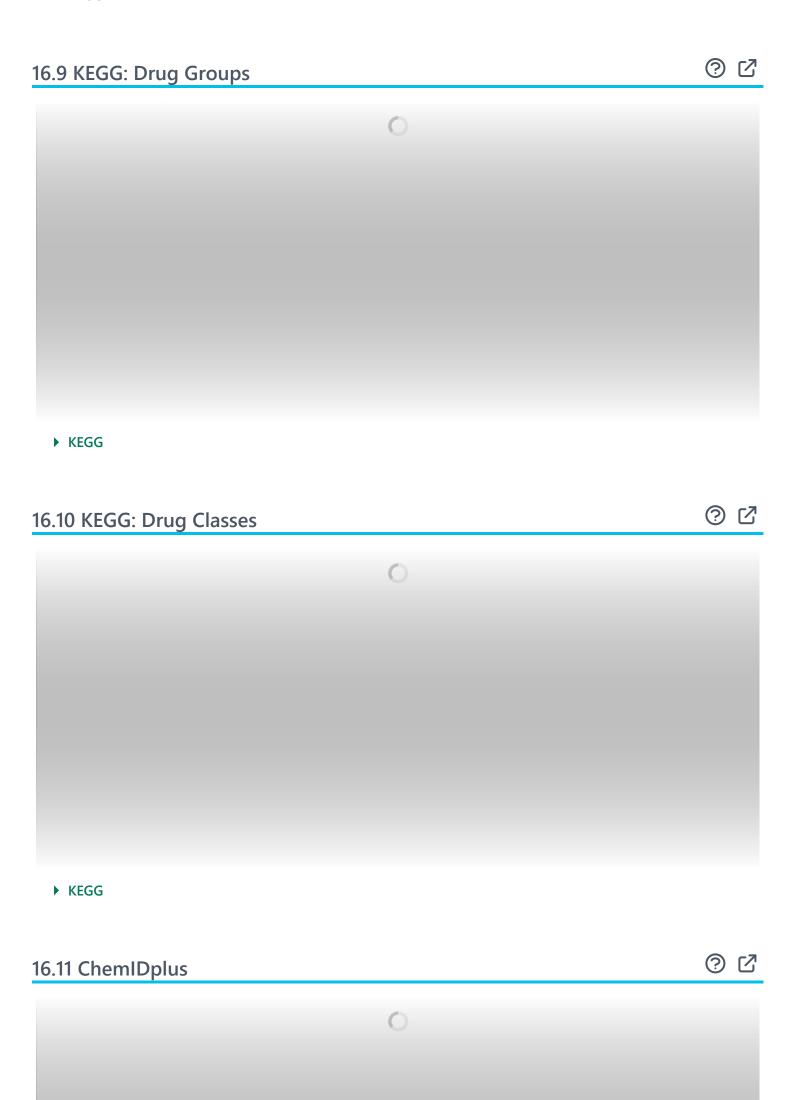
▶ PubChem

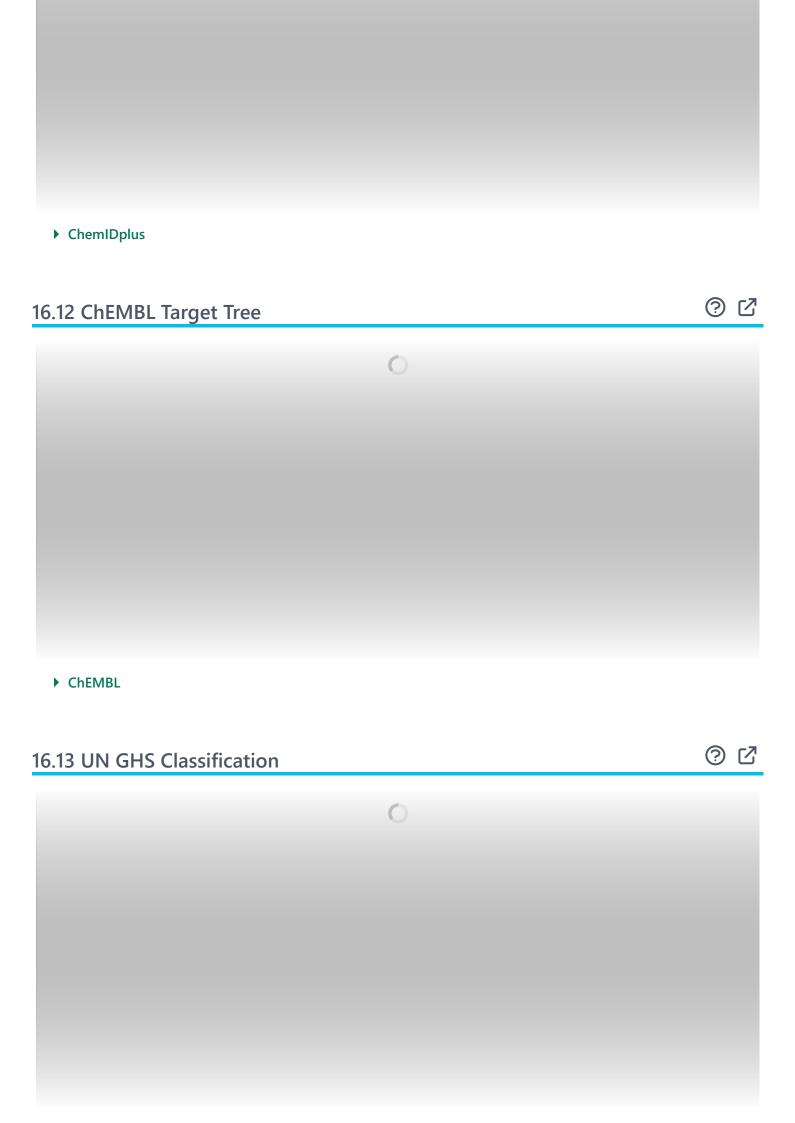


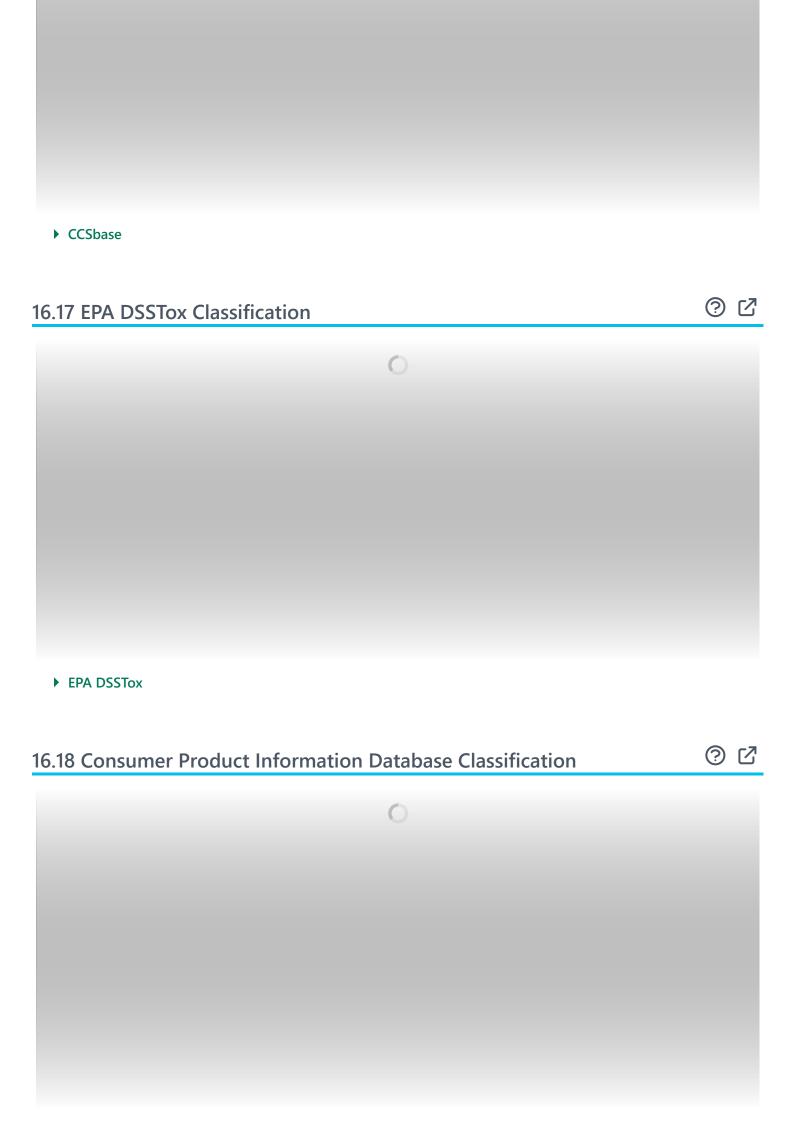












► Consumer Product Information Database (CPID)

▶ EPA Substance Registry Services

17 Information Sources





FILTER BY SOURCE

ALL SOURCES

1. Australian Industrial Chemicals Introduction Scheme (AICIS)

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https://www.industrialchemicals.gov.au/copyright

Acetamide, 2-(diethylamino)-N-(2,6-dimethylphenyl)-, monohydrochloride https://services.industrialchemicals.gov.au/search-assessments/

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Lidocaine hydrochloride

https://commonchemistry.cas.org/detail?cas_rn=73-78-9

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https://www.nlm.nih.gov/copyright.html

Lidocaine hydrochloride

https://pubchem.ncbi.nlm.nih.gov/substance/?source=chemidplus&sourceid=0000073789

ChemIDplus Chemical Information Classification

https://pubchem.ncbi.nlm.nih.gov/source/ChemIDplus

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Lidocaine hydrochloride

https://dtp.cancer.gov/dtpstandard/servlet/dwindex?searchtype=NSC& output format=html& search list=757420. The property of t

5. EPA Chemical Data Reporting (CDR)

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https://www.epa.gov/web-policies-and-procedures/epa-disclaimers#copyright

Acetamide, 2-(diethylamino)-N-(2,6-dimethylphenyl)-, hydrochloride (1:1)

https://www.epa.gov/chemical-data-reporting

6. EPA Chemicals under the TSCA

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https://www.epa.gov/privacy/privacy-act-laws-policies-and-resources

Acetamide, 2-(diethylamino)-N-(2,6-dimethylphenyl)-, hydrochloride (1:1)

https://www.epa.gov/chemicals-under-tsca

EPA TSCA Classification

https://www.epa.gov/tsca-inventory

7. EPA DSSTox

LICENSE

https://www.epa.gov/privacy/privacy-act-laws-policies-and-resources

Acetamide, 2-(diethylamino)-N-(2,6-dimethylphenyl)-, monohydrochloride

https://comptox.epa.gov/dashboard/DTXSID4058782

CompTox Chemicals Dashboard Chemical Lists

https://comptox.epa.gov/dashboard/chemical-lists/

8. European Chemicals Agency (ECHA)

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Lidocaine hydrochloride

https://echa.europa.eu/substance-information/-/substanceinfo/100.000.731

Lidocaine hydrochloride

https://echa.europa.eu/substance-information/-/substanceinfo/100.130.870

Lidocaine hydrochloride (EC: 200-803-8)

https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/92016

Lidocaine hydrochloride (EC: 612-079-4)

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https://gsrs.ncats.nih.gov/ginas/app/beta/substances/EC2CNF7XFP

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11. CCSbase

CCSbase Classification

https://ccsbase.net/

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https://www.ebi.ac.uk/chembl/g/#browse/targets

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https://www.whatsinproducts.com/contents/view/1/6

Lidocaine hydrochloride

https://www.whatsinproducts.com/chemicals/view/1/5034/000073-78-9

Consumer Products Category Classification

https://www.whatsinproducts.com/

15. DailyMed

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https://www.nlm.nih.gov/copyright.html

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https://dailymed.nlm.nih.gov/dailymed/search.cfm?labeltype=all&query=LIDOCAINE+HYDROCHLORIDE

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https://www.ncbi.nlm.nih.gov/books/n/lactmed/LM363/

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https://comptox.epa.gov/dashboard/DTXSID4058782#exposure

EPA CPDat Classification

https://www.epa.gov/chemical-research/chemical-and-products-database-cpdat

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https://www.fda.gov/drugs/drug-approvals-and-databases/approved-drug-products-therapeutic-equivalence-evaluations-orange-book

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https://www.kegg.jp/entry/D02086

Therapeutic category of drugs in Japan

http://www.genome.jp/kegg-bin/get_htext?br08301.keg

USP drug classification

http://www.genome.jp/kegg-bin/get_htext?br08302.keg

Anatomical Therapeutic Chemical (ATC) classification

http://www.genome.jp/kegg-bin/get_htext?br08303.keg

Target-based classification of drugs

http://www.genome.jp/kegg-bin/get_htext?br08310.keg

Risk category of Japanese OTC drugs

http://www.genome.jp/kegg-bin/get_htext?br08312.keg

Classification of Japanese OTC drugs

http://www.genome.jp/kegg-bin/get_htext?br08313.keg

Drug Groups

http://www.genome.jp/kegg-bin/get_htext?br08330.keg

Drua Classes

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https://www.fda.gov/drugs/drug-approvals-and-databases/national-drug-code-directory

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NCI Thesaurus

https://ncit.nci.nih.gov

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https://rctportal.niph.go.jp/en/

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lidocaine hydrochloride

https://rxnav.nlm.nih.gov/id/rxnorm/142440

lidocaine hydrochloride anhydrous

https://rxnav.nlm.nih.gov/id/rxnorm/1299236

26. SpectraBase

2-(DIETHYLAMINO)-2',6'-ACETOXYLIDIDE, MONOHYDROCHLORIDE

https://spectrabase.com/spectrum/MgecH6TZmH

2-(diethylamino)-2',6'-acetoxylidide, monohydrochloride

https://spectrabase.com/spectrum/BljhLAKocMg

2-(DIETHYLAMINO)-2',6'-ACETOXYLIDIDE, MONOHYDROCHLORIDE

https://spectrabase.com/spectrum/FjOWIo9miLe

ACETAMIDE, 2-(DIETHYLAMINO)-N-(2,6-DIMETHYLPHENYL)-, MONOHYDROCHLORIDE

https://spectrabase.com/spectrum/2TGLIm86sev

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https://www.wikidata.org/wiki/Q27122094

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https://www.ncbi.nlm.nih.gov/mesh/68008012

MeSH Tree

http://www.nlm.nih.gov/mesh/meshhome.html

Voltage-Gated Sodium Channel Blockers

https://www.ncbi.nlm.nih.gov/mesh/68061567

Anti-Arrhythmia Agents

https://www.ncbi.nlm.nih.gov/mesh/68000889

Anesthetics, Local

https://www.ncbi.nlm.nih.gov/mesh/68000779

30. PubChem

https://pubchem.ncbi.nlm.nih.gov

31. GHS Classification (UNECE)

GHS Classification Tree

http://www.unece.org/trans/danger/publi/ghs/ghs_welcome_e.html

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NORMAN Suspect List Exchange Classification

https://www.norman-network.com/nds/SLE/

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https://www.epa.gov/privacy/privacy-act-laws-policies-and-resources

EPA SRS List Classification

https://sor.epa.gov/sor_internet/registry/substreg/LandingPage.do

34. PATENTSCOPE (WIPO)

SID 403383332

https://pubchem.ncbi.nlm.nih.gov/substance/403383332