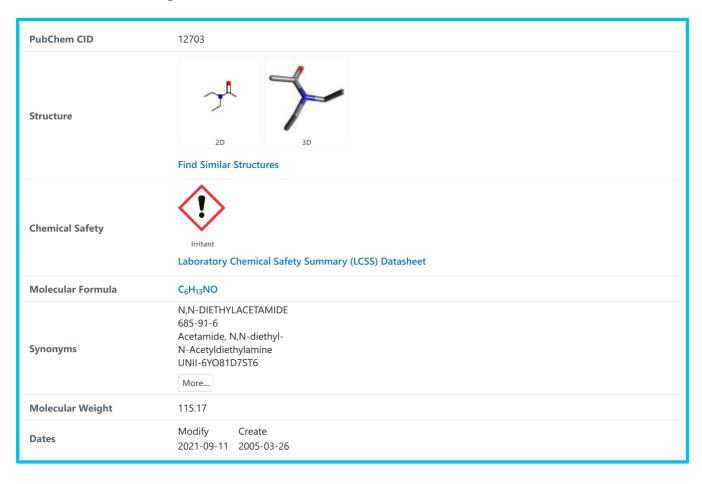


COMPOUND SUMMARY

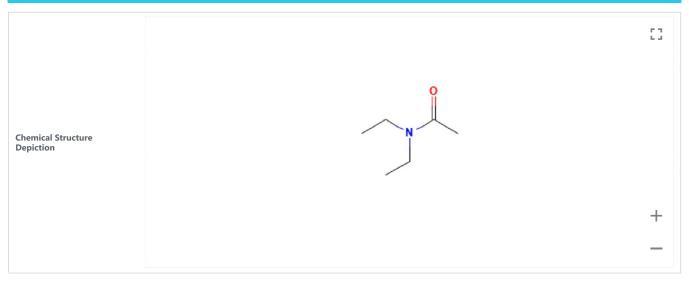
N,N-Diethylacetamide



1 Structures ② 🗵

1.1 2D Structure

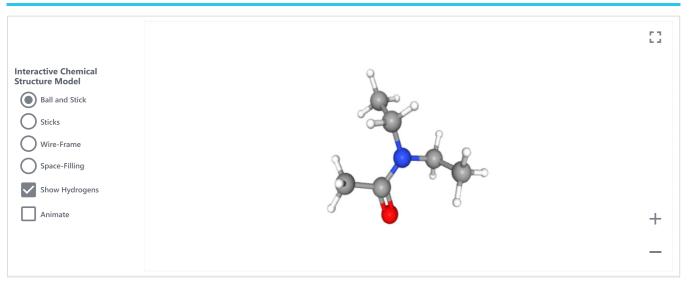




PubChem

1.2 3D Conformer





PubChem

2 Names and Identifiers	② Z
2.1 Computed Descriptors	② Z
2.1.1 IUPAC Name	② Z
N,N-diethylacetamide Computed by Lexichem TK 2.7.0 (PubChem release 2021.05.07) PubChem	
2.1.2 InChI	② Z
InChI=1S/C6H13NO/c1-4-7(5-2)6(3)8/h4-5H2,1-3H3 Computed by InChI 1.0.6 (PubChem release 2021.05.07) PubChem	
2.1.3 InChl Key	② ☑
AJFDBNQQDYLMJN-UHFFFAOYSA-N Computed by InChi 1.0.6 (PubChem release 2021.05.07) PubChem	
2.1.4 Canonical SMILES	② Z
CCN(CC)C(=O)C Computed by OEChem 2.3.0 (PubChem release 2021.05.07) PubChem	
2.2 Molecular Formula	② Z
C6H13NO Computed by PubChem 2.1 (PubChem release 2021.05.07) PubChem	
2.3 Other Identifiers	② Z
2.3.1 CAS	⊘ ☑
685-91-6 CAS Common Chemistry; ChemIDplus; DTP/NCI; EPA Chemicals under the TSCA; EPA DSSTox; European Cl	nemicals Agency (ECHA); Hazardous Substances Data Bank (HSDB)
2.3.2 European Community (EC) Number	⊘ ☑
211-685-2 ▶ European Chemicals Agency (ECHA)	
2.3.3 NSC Number	② Z
101	
▶ DTP/NCI	
2.3.4 UNII	② Z
6YO81D7ST6	

▶ FDA/SPL Indexing Data

② Z

DTXSID9020459

▶ EPA DSSTox

2.4 Synonyms

? Z

2.4.1 MeSH Entry Terms

② Z

N,N-diethylacetamide

▶ Medical Subject Headings (MeSH)

2.4.2 Depositor-Supplied Synonyms

?	/
_	_

N,N-DIETHYLACETAMIDE	NSC 101	SCHEMBL18738	AKOS003862095	119352-EP2289965A
685-91-6	Acetic acid, amide, N,N-diethyl	N,N-Diethylacetamide, 97%	CZJT-685-91-6	119352-EP2298828A
Acetamide, N,N-diethyl-	EINECS 211-685-2	4-04-00-00349 (Beilstein Handbook Reference)	DS-3397	Q27265731
N-Acetyldiethylamine	BRN 1209428	CH3CON(C2H5)2	NE10631	
UNII-6YO81D7ST6	AI3-02182	NSC101	NCGC00248816-01	
N,N-diethyl-acetamide	n-diethylacetamide	CHEMBL3184758	NCGC00258287-01	
MFCD00009047	N,N-diethylacetoamide	DTXSID9020459	AK105973	
6YO81D7ST6	N,N-diethylethanamide	WLN: 2N2&V1	CAS-685-91-6	
Acetamide,N,N-Diethyl-	N,N-di ethylacetamide	NSC-101	P948	
N,N-Diaethylacetamid	ACMC-20ah6c	ZINC388233	SY037752	
N,N-Diaethylacetamid [German]	DSSTox_CID_459	ADAL1185351	D0461	
N,N-diethyl acetamide	DSSTox_RID_75604	Tox21_200733	FT-0629458	
HSDB 5513	DSSTox GSID 20459	ANW-73186	25725-EP2315303A1	

PubChem

3 Chemical and Physical Properties



3.1 Computed Properties



Property Name	Property Value	Reference
Molecular Weight	115.17	Computed by PubChem 2.1 (PubChem release 2021.05.07)
XLogP3	0.3	Computed by XLogP3 3.0 (PubChem release 2021.05.07)
Hydrogen Bond Donor Count	0	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Hydrogen Bond Acceptor Count	1	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Rotatable Bond Count	2	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Exact Mass	115.099714038	Computed by PubChem 2.1 (PubChem release 2021.05.07)
Monoisotopic Mass	115.099714038	Computed by PubChem 2.1 (PubChem release 2021.05.07)
Topological Polar Surface Area	20.3 Ų	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
Heavy Atom Count	8	Computed by PubChem
Formal Charge	0	Computed by PubChem
Complexity	76.6	Computed by Cactvs 3.4.8.18 (PubChem release 2021.05.07)
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	1	Computed by PubChem
Compound Is Canonicalized	Yes	Computed by PubChem (release 2021.05.07)

▶ PubChem

3.2 Experimental Properties



3.2.1 Color/Form

@ [

Colorless liquid

Lewis, R.J., Sr (Ed.). Hawley's Condensed Chemical Dictionary. 13th ed. New York, NY: John Wiley & Sons, Inc. 1997., p. 372

▶ Hazardous Substances Data Bank (HSDB)

3.2.2 Odor

? Z

Faint odor

Lewis, R.J., Sr (Ed.). Hawley's Condensed Chemical Dictionary. 13th ed. New York, NY: John Wiley & Sons, Inc. 1997., p. 372

▶ Hazardous Substances Data Bank (HSDB)

3.2.3 Boiling Point

② Z

185.5 °C

▶ EPA DSSTox; Hazardous Substances Data Bank (HSDB)

3.2.4 Melting Point

? [7

LESS THAN 20 °C

Patty, F. (ed.). Industrial Hygiene and Toxicology: Volume II: Toxicology. 2nd ed. New York: Interscience Publishers, 1963., p. 1830

▶ Hazardous Substances Data Bank (HSDB)

3.2.5 Flash Point

170 °F

3.2.6 Solubility			? Z
Sol in water, alcohol; sol in a	Ill proportions in ether, acetone, benzer		
▶ Hazardous Substances D	ata Bank (HSDB)		
3.2.7 Density			? Z
0.9130 @ 17 °C			
Lide, DR (ed.). CRC Handbook o	of Chemistry and Physics. 81st Edition. CRC Pro	ress LLC, Boca Raton: FL 2000, p. 3-4	
▶ Hazardous Substances D	ata Bank (HSDB)		
3.2.8 Vapor Pressure			② Z
2 MM HG @ 35 °C			
Patty, F. (ed.). Industrial Hygier. • Hazardous Substances De		ed. New York: Interscience Publishers, 1963., p. 1830	
3.2.9 LogP			@ [Z]
0.34 (LogP)			
HANSCH,C ET AL. (1995)			
▶ EPA DSSTox			
log Kow = 0.34			
Hansch, C., Leo, A., D. Hoekma	n. Exploring QSAR - Hydrophobic, Electronic, a	and Steric Constants. Washington, DC: American Chemical Society., 1995., p. 24	
► Hazardous Substances D	ata Bank (HSDB)		
3.2.10 Decomposition			② Z
When heated to decomposit	tion it emits toxic fumes of /nitrogen ox	xides/.	
Lewis, R.J. Sax's Dangerous Pro	perties of Industrial Materials. 9th ed. Volume:	es 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 1146	
Hazardous Substances Da	ata Bank (HSDB)		
3.2.11 Refractive Index			(?) Z
Index of refraction: 1.4374 @	0 17 4 °C/4 °C		<u> </u>
	of Chemistry and Physics. 81st Edition. CRC Pro	ress LLC, Boca Raton: FL 2000, p. 3-4	
▶ Hazardous Substances D	ata Bank (HSDB)		
3.2.12 Kovats Retention	n Index		② Z
Standard non-polar	966		<u> </u>
Semi-standard non-polar	985		
Standard polar	1595		
NIST Mass Spectrometry	Data Center		
2.2. Combo as a N. 4 - 4 *	ala Duanautias		② Z
3.3 SpringerMateri	ais Properties		ك ك
Boiling point Chemical shift		Optical coefficient Refractive index	
Density		Vapor pressure	
Diamagnetic susceptibility Dielectric constant		Viscosity	
Excess enthalpy			
Heat of solution Heat of sublimation			

Hydrogen bonding potential Lineshape Magnetic susceptibility Mixing enthalpy

SpringerMaterials

4 Spectral Information

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4.1 1D NMR Spectra



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1D NMR Spectra NMR: 6701 (Sadtler Research Laboratories Spectral Collection)

▶ Hazardous Substances Data Bank (HSDB)

1D NMR Spectra NMRShiftDB Link

▶ NMRShiftDB

4.1.1 1H NMR Spectra



Instrument Name	Varian A-60
Source of Sample	Aldrich Chemical Company, Inc., Milwaukee, Wisconsin
Copyright	Copyright © 2009-2021 John Wiley & Sons, Inc. All Rights Reserved.

Thumbnail

SpectraBase

Source of Spectrum	Sigma-Aldrich Co. LLC.
Source of Sample	Sigma-Aldrich Co. LLC.
Catalog Number	137529
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Thumbnail

SpectraBase

4.1.2 13C NMR Spectra



Showing	_				ΓZ
Showing	2	of 21	View	More	

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▶ SpectraBase	
Copyright	Copyright © 2016-2021 W. Robien, Inst. of Org. Chem., Univ. of Vienna. All Rights Reserved.
Thumbnail	
▶ SpectraBase	
4.1.3 15N NMR Spectra	② Z
Instrument Name	Bruker WH-90
Copyright	Copyright © 2002-2021 Wiley-VCH Verlag GmbH & Co. KGaA. All Rights Reserved.
Thumbnail	

4.1.4 170 NMR Spectra

SpectraBase

② Z

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Thumbnail		
▶ SpectraBase		
4.2 Mass Spectro	metry	② Z
4.2.1 GC-MS		② Z
Showing 2 of 15 View More	Z Z	
NIST Number	233706	
Library	Main library	
Total Peaks	41	
m/z Top Peak	58	
m/z 2nd Highest	115	
m/z 3rd Highest	44	
Thumbnail		
NIST Mass Spectrome	try Data Center	
NIST Number	149222	
Library	Replicate library	

47

58 44

43

Total Peaks m/z Top Peak

Thumbnail

m/z 2nd Highest m/z 3rd Highest

NIST Mass Spectrometry Data Center 4.2.2 Other MS Other MS MS: NIST (NIST/EPA/MCDC Mass Spectral Database 1990 version) 1861; NBS (National Bureau of Standards) 1594 ▶ Hazardous Substances Data Bank (HSDB) 4.3 UV Spectra MAX ABSORPTION (WATER): APPROX 200 NM (LOG E= 3.96) Weast, R.C. (ed.). Handbook of Chemistry and Physics. 60th ed. Boca Raton, Florida: CRC Press Inc., 1979., p. C-84 ▶ Hazardous Substances Data Bank (HSDB) **② Z** 4.4 IR Spectra IR Spectra IR: 1874 (Sadtler Research Laboratories Prism Collection) ▶ Hazardous Substances Data Bank (HSDB) 4.4.1 FTIR Spectra Technique Neat Sigma-Aldrich Co. LLC. **Source of Spectrum Source of Sample** Aldrich 137529 **Catalog Number** Copyright © 2018-2021 Sigma-Aldrich Co. LLC. - Database Compilation Copyright © 2018-2021 John Wiley & Sons, Inc. All Rights Copyright Thumbnail

SpectraBase

4.4.2 ATR-IR Spectra





Source of Sample	Aldrich
Catalog Number	137529
Copyright	Copyright © 2018-2021 Sigma-Aldrich Co. LLC Database Compilation Copyright © 2018-2021 John Wiley & Sons, Inc. All Rights Reserved.

Thumbnail SpectraBase		
4.4.3 Near IR Spectra		② Z
Instrument Name	BRUKER IFS 88	
Technique	NIR Spectrometer= INSTRUMENT PARAMETERS=INST=BRUKER,RSN=3931,REO=2,CNM=HEI,ZFF=2	
Source of Spectrum	Prof. Buback, University of Goettingen, Germany	
Copyright	Copyright © 1989, 1990-2021 Wiley-VCH Verlag GmbH & Co. KGaA. All Rights Reserved.	
Thumbnail • SpectraBase		
Instrument Name	BRUKER IFS 88	
Technique	NIR Spectrometer= INSTRUMENT PARAMETERS=INST=BRUKER,RSN=3931,REO=2,CNM=HEI,ZFF=2	
Source of Spectrum	Prof. Buback, University of Goettingen, Germany	
Copyright	Copyright © 1989, 1990-2021 Wiley-VCH Verlag GmbH & Co. KGaA. All Rights Reserved.	
Thumbnail		

4.4.4 Vapor Phase IR Spectra

② Z



Instrument Name	DIGILAB FTS-14
Technique	Vapor Phase
Copyright	Copyright © 1980, 1981-2021 John Wiley & Sons, Inc. All Rights Reserved.
Thumbnail	
Thumbhail	

SpectraBase

Source of Spectrum	Sigma-Aldrich Co. LLC.
Source of Sample	Sigma-Aldrich Co. LLC.
Catalog Number	137529
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Thumbnail

SpectraBase

4.5 Raman Spectra



?)	

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Thumbnail	

SpectraBase

5 Related Records **② Z** 5.1 Related Compounds with Annotation

PubChem

5.2 Related Compounds

②

Same Parent, Exact	18 Records
Mixtures, Components, and Neutralized Forms	80 Records
Similar Compounds	33 Records
Similar Conformers	3,046 Records

PubChem

5.3 Substances



5.3.1 Related Substances	? 🛮
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All	218 Records	
Same	113 Records	
Mixture	105 Records	

▶ PubChem

5.3.2 Substances by Category

② Z

5.4 Entrez Crosslinks



PubMed

1 Record

PubChem

6 Chemical Vendors



PubChem

7 Pharmacology and Biochemistry



7.1 Metabolism/Metabolites



IN MICE, THE DISCREPANCY BETWEEN IN VITRO & IN VIVO LIVER ENZYME INHIBITION ACTIVITY MAY BE DUE TO OXIDATIVE N-DEALKYLATION OF N,N-DIETHYLACETAMIDE OCCURRING IN VIVO, FACILITATING THE INHIBITION.

PMID:7308906

BEHYL FE, LINDNER E; FOOD COSMET TOXICOL 19 (5): 627 (1981)

▶ Hazardous Substances Data Bank (HSDB)

8 Use and Manufacturing

8.1 General Manufacturing Information

EPA TSCA Commercial Activity Status

Acetamide, N,N-diethyl-: ACTIVE https://www.epa.gov/tsca-inventory

▶ EPA Chemicals under the TSCA

DIETHYLACETAMIDE- AN EXAMPLE OF DRUG ABUSE.

ADERJAN R; DIETHYLACETAMIDE- AN IMPRESSIVE EXAMPLE OF DRUG ABUSE; MED WELT 30(13) 485 (1979)

▶ Hazardous Substances Data Bank (HSDB)

SOLVENTS WERE TESTED IN MICE FOR THEIR TOXICITY, CENTRAL NERVOUS SYSTEM PROFILE, AND ACTIVITY IN THE INCLINED SCREEN AND BALANCE ROD TESTS AFTER INTRAPERITONEAL ADMINISTRATION, PLUS THEIR INFLUENCE ON THE HEXABARBITONE SLEEPING TIME AND MUSCLE RELAXANT PROPERTIES ON THE ROTA-ROD AFTER ORAL ADMINISTRATION. N,N-DIETHYLACETAMIDE WAS RECOMMENDED NOT TO EXCEED A CONCENTRATION OF 0.3 IN DRUG SOLUTIONS AS SOLVENT FOR SCREENING PURPOSES.

BUDDEN R ET AL; EXPERIMENTS ON THE TOXIC, SEDATIVE AND MUSCLE RELAXANT POTENCY OF VARIOUS DRUG SOLVENTS IN MICE; PHARMACOL THER 5(1-3) 467 (1979)

▶ Hazardous Substances Data Bank (HSDB)

9 Safety and Hazards

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9.1 Hazards Identification

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9.1.1 GHS Classification

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(:)	Ľ

Pictogram(s)	Irritant
Signal	Warning
GHS Hazard Statements	H302 (100%): Harmful if swallowed [<u>Warning</u> Acute toxicity, oral] H312 (88.64%): Harmful in contact with skin [<u>Warning</u> Acute toxicity, dermal]
	H315 (100%): Causes skin irritation [<u>Warning</u> Skin corrosion/irritation] H319 (100%): Causes serious eye irritation [<u>Warning</u> Serious eye damage/eye irritation] H332 (88.64%): Harmful if inhaled [<u>Warning</u> Acute toxicity, inhalation]
	H335 (88.64%): May cause respiratory irritation [Warning Specific target organ toxicity, single exposure; Respiratory tract irritation]
Precautionary Statement	P261, P264, P270, P271, P280, P301+P312, P302+P352, P304+P312, P304+P340, P305+P351+P338, P312, P321, P322, P330, P332+P313, P337+P313, P362, P363, P403+P233, P405, and P501
coucs	(The corresponding statement to each P-code can be found at the GHS Classification page.)
ECHA C&L Notifications Summary	Aggregated GHS information provided by 45 companies from 5 notifications to the ECHA C&L Inventory. Each notification may be associated with multiple companies.
	Reported as not meeting GHS hazard criteria by 1 of 45 companies. For more detailed information, please visit ECHA C&L website.
	Of the 4 notification(s) provided by 44 of 45 companies with hazard statement code(s).
	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)

9.1.2 Hazard Classes and Categories

@ [2

Acute Tox. 4 (100%)

Acute Tox. 4 (88.64%)

Skin Irrit. 2 (100%)

Eye Irrit. 2A (100%)

Acute Tox. 4 (88.64%)

STOT SE 3 (88.64%)

▶ European Chemicals Agency (ECHA)

9.1.3 Fire Potential



Flammable when exposed to heat or flame.

Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 1146

▶ Hazardous Substances Data Bank (HSDB)

9.2 Fire Fighting

9.2.1 Fire Fighting Procedures



To fight fire, use foam, mist, /carbon dioxide/, dry chemical.



Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 1146

▶ Hazardous Substances Data Bank (HSDB)

9.3 Accidental Release Measures



9.3.1 Disposal Methods



SRP: At the time of review, criteria for land treatment or burial (sanitary landfill) disposal practices are subject to significant revision. Prior to implementing land disposal of waste residue (including waste sludge), consult with environmental regulatory agencies for guidance on acceptable disposal practices.

▶ Hazardous Substances Data Bank (HSDB)

9.4 Regulatory Information

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9.4.1 TSCA Requirements



Pursuant to section 8(d) of TSCA, EPA promulgated a model Health and Safety Data Reporting Rule. The section 8(d) model rule requires manufacturers, importers, and processors of listed chemical substances and mixtures to submit to EPA copies and lists of unpublished health and safety studies. N,N-Diethylacetamide is included on this list.

40 CFR 716.120 (7/1/2000)

▶ Hazardous Substances Data Bank (HSDB)

9.5 Other Safety Information



9.5.1 Toxic Combustion Products



When heated to decomposition it emits toxic fumes of /nitrogen oxides/.

Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 1146

▶ Hazardous Substances Data Bank (HSDB)

10.1.1 Acute Effects

8 items View More

Organism	Test Type	Route	Dose	Effect	Reference
rat	LD50	intraperitoneal	1840 mg/kg		Arzneimittel-Forschung. Drug Research., 20(1242), 1970 [PMID:5536801]
rat	LDLo	intravenous	1 gm/kg	BEHAVIORAL: ALTERED SLEEP TIME (INCLUDING CHANGE IN RIGHTING REFLEX)	Arzneimittel-Forschung. Drug Research., 28(1571), 1978 [PMID:582558]
rat	LD50	unreported	1500 mg/kg		Arzneimittel-Forschung. Drug Research., 19(1073), 1969 [PMID:4310199]
mouse	LD50	intraperitoneal	1600 mg/kg	SENSE ORGANS AND SPECIAL SENSES: MYDRIASIS (PUPILLARY DILATION): EYE	Pharmacology and Therapeutics., 5(467), 1979
dog	LDLo	intravenous	1 gm/kg	BEHAVIORAL: ALTERED SLEEP TIME (INCLUDING CHANGE IN RIGHTING REFLEX)	Arzneimittel-Forschung. Drug Research., 28(1571), 1978 [PMID:582558]
				1 2 Next >	

▶ ChemIDplus

10.1.2 Interactions



CMPDS INCLUDING N,N-DIETHYLACETAMIDE SHOWED NONSPECIFIC SPASMOLYTIC PROPERTIES AGAINST HISTAMINE-, CARBACHOL-, & BARIUM CHLORIDE-INDUCED SPASMS IN ISOLATED GUINEA PIG ILEUM.

BUDDEN R ET AL; ARZNEIM-FORSCH 28 (9): 1571 (1978)

▶ Hazardous Substances Data Bank (HSDB)

10.1.3 Antidote and Emergency Treatment



Basic treatment: Establish a patent airway. Suction if necessary. Watch for signs of respiratory insufficiency and assist respirations if necessary. Administer oxygen by nonrebreather mask at 10 to 15 L/min. Monitor for pulmonary edema and treat if necessary Monitor for shock and treat if necessary For eye contamination, flush eyes immediately with water. Irrigate each eye continuously with normal saline during transport Do not use emetics. For ingestion, rinse mouth and administer 5 ml/kg up to 200 ml of water for dilution if the patient can swallow, has a strong gag reflex, and does not drool. Activated charcoal is not effective Do not attempt to neutralize because of exothermic reaction. Cover skin burns with dry, sterile dressings after decontamination /Organic acids and related compounds/

Bronstein, A.C., P.L. Currance; Emergency Care for Hazardous Materials Exposure. 2nd ed. St. Louis, MO. Mosby Lifeline. 1994., p. 152-3

▶ Hazardous Substances Data Bank (HSDB)

Advanced treatment: Consider orotracheal or nasotracheal intubation for airway control in the patient who is unconscious, has severe pulmonary edema, or is in respiratory arrest. Early intubation, at the first sign of upper airway obstruction, may be necessary. Positive pressure ventilation techniques with a bag valve mask device may be beneficial. Monitor cardiac rhythm and treat arrhythmias as necessary Start an IV with D5W /SRP: "To keep open", minimal flow rate/. Use lactated Ringer's if signs of hypovolemia are present. Watch for signs of fluid overload. Consider drug therapy for pulmonary edema For hypotension with signs of hypovolemia, administer fluid cautiously. Consider vasopressors if patient is hypotensive with a normal fluid volume. Watch for signs of fluid overload Use proparacaine hydrochloride to assist eye irrigation /Organic acids and related compounds/

Bronstein, A.C., P.L. Currance; Emergency Care for Hazardous Materials Exposure. 2nd ed. St. Louis, MO. Mosby Lifeline. 1994., p. 153

▶ Hazardous Substances Data Bank (HSDB)

10.1.4 Human Toxicity Excerpts



DIMETHYL ACETAMIDE HAS A RELATIVELY MODERATE HEPATOTOXIC ACTION IN OCCUPATIONALLY EXPOSED WORKERS. DUE TO SCANT KNOWLEDGE OF DIMETHYL ACETAMIDE TOXICITY, DATA RELATIVE TO SOME CMPDS WHICH PRESENT STRUCTURES & ACTION ANALOGUES TO DIMETHYL ACETAMIDE & WHOSE TOXICITY IS BETTER KNOWN ARE REPORTED AS AN APPENDIX.

PMID:5095328

CORSI GC; MED LAV 62 (1): 28 (1971)

▶ Hazardous Substances Data Bank (HSDB)

THE CARCINOGENIC ACTIVITY OF DIETHYLACETAMIDE WAS STUDIED BECAUSE OF ITS ABILITY TO DENATURE PROTEINS & STRUCTURAL RESEMBLANCE TO NITROSAMINE DERIVATIVES. INGESTED, IT PRODUCED A TRANSITIONAL CELL CARCINOMA OF RAT KIDNEY & SEVERE RENAL DAMAGE. EVIDENCE DOES NOT SUPPORT THE VIEW THAT CYCLIC NITROSAMINES EXERT THEIR CARCINOGENIC ACTION VIA METAB TO DIAZOALKANES.

PMID:4285466

ARGUS MF; J NATL CANCER INST 35 (6): 949 (1965)

▶ Hazardous Substances Data Bank (HSDB)

N,N-DIETHYLACETAMIDE 600 MG/KG GIVEN TO PREGNANT RATS ON THE 13TH OR 14TH DAYS OF GESTATION PRODUCED DIAPLACENTAL TERATOGENIC EFFECTS. THIS WAS 40% OF THE LD50 DOSE.

VON KREYBIG T ET AL; ARZNEIM-FORSCH 19 (7): 1073 (1969)

▶ Hazardous Substances Data Bank (HSDB)

CMPDS INCLUDING N,N-DIETHYLACETAMIDE SHOWED NONSPECIFIC SPASMOLYTIC PROPERTIES AGAINST HISTAMINE-, CARBACHOL-, & BARIUM CHLORIDE-INDUCED SPASMS IN ISOLATED GUINEA PIG ILEUM, & AT LOW IV DOSES AFFECTED THE HEART RATE & BLOOD PRESSURE IN RATS, CATS, & DOGS.

BUDDEN R ET AL; ARZNEIM-FORSCH 28 (9): 1571 (1978)

▶ Hazardous Substances Data Bank (HSDB)

IN MOUSE LIVER HOMOGENATES, N,N-DIETHYLACETAMIDE HAD NO EFFECT ON A SERIES OF LIVER MIXED-FUNCTION OXIDASE & CYTOCHROME C REDUCTASE ACTIVITIES, BUT IN VIVO (150 MG/KG, IP) IT INHIBITED THESE ACTIVITIES WITHIN 45 MIN & INCREASED HEXOBARBITAL SLEEPING TIME.

PMID:7308906

BEHYL FE, LINDNER E; FOOD COSMET TOXICOL 19 (5): 627 (1981)

▶ Hazardous Substances Data Bank (HSDB)

INJECTIONS OF N,N-DIETHYLACETAMIDE INDUCED SOME JUMPS OF CONVULSIONS IN MICE. IT INDUCED TESTICULAR ATROPHY IN RATS. RATS GIVEN 1/20 LD50 DOSES DAILY FOR 6 WK DID NOT EXHIBIT TOXIC EFFECTS BUT DID EXHIBIT DECREASED PONDERAL GROWTH.

CAUJOLLE F ET AL; ARZNEIM-FORSCH 20 (9): 1242 (1970)

▶ Hazardous Substances Data Bank (HSDB)

10.1.6 Non-Human Toxicity Values

?



LD50 Rat oral 1500 mg/kg

Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 1146

▶ Hazardous Substances Data Bank (HSDB)

LD50 Rat iv 1 g/kg

Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 1146

▶ Hazardous Substances Data Bank (HSDB)

LD50 Mouse ip 1690 mg/kg

Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 1146

▶ Hazardous Substances Data Bank (HSDB)

LD50 Dog iv 1 g/kg

Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 1146

▶ Hazardous Substances Data Bank (HSDB)

10.2 Ecological Information

(2) [

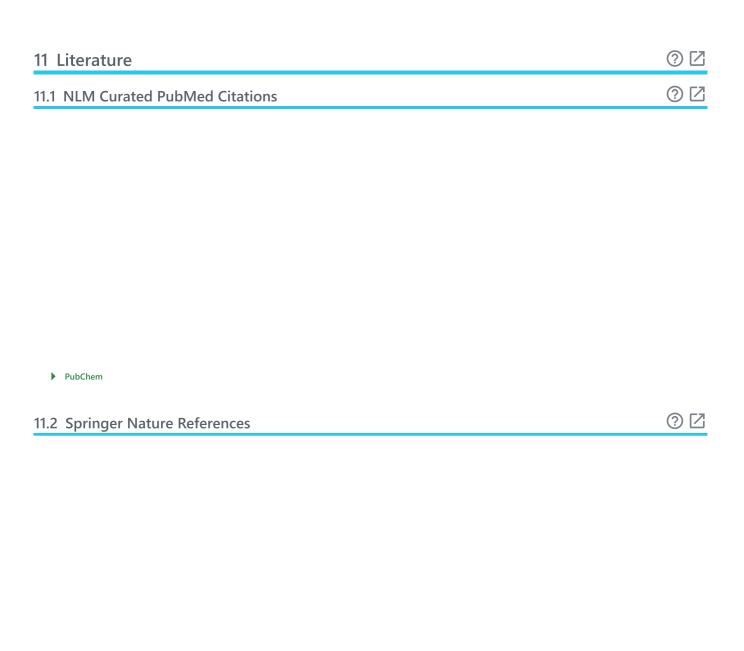
10.2.1 Soil Adsorption/Mobility



Soil Adsorption Coefficient

69.18 L/kg

▶ EPA DSSTox



11.3 Thieme References

▶ Thieme Chemistry

Wiley **② Z** 11.5 Depositor Provided PubMed Citations PubChem **② Z** 11.6 Chemical Co-Occurrences in Literature PubChem **② Z** 11.7 Chemical-Gene Co-Occurrences in Literature

12 Patents	? Z
12.1 Depositor-Supplied Patent Identifiers	② Z

PubChem

Link to all deposited patent identifiers

PubChem

12.2 WIPO PATENTSCOPE



Patents are available for this chemical structure:

https://patentscope.wipo.int/search/en/result.jsf?inchikey=AJFDBNQQDYLMJN-UHFFFAOYSA-N

▶ PATENTSCOPE (WIPO)



▶ Medical Subject Headings (MeSH)

14.1.2 ChemIDplus

▶ ChemIDplus

14.1.3 UN GHS Classification



NORMAN Suspect List Exchange

14.1.5 EPA DSSTox Classification



▶ EPA DSSTox



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https://chem.nlm.nih.gov/chemidplus/sid/0000685916

ChemIDplus Chemical Information Classification

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Diethylacetamide

https://comptox.epa.gov/dashboard/DTXSID9020459

CompTox Chemicals Dashboard Chemical Lists

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

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N,N-diethylacetamide

https://echa.europa.eu/substance-information/-/substanceinfo/100.010.624

N,N-diethylacetamide

https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33490

7. Hazardous Substances Data Bank (HSDB)

N,N-DIETHYLACETAMIDE

https://pubchem.ncbi.nlm.nih.gov/source/hsdb/5513

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https://www.fda.gov/ForIndustry/DataStandards/SubstanceRegistrationSystem-UniqueIngredientIdentifierUNII/Particles (SubstanceRegistrationSystem-UniqueIngredientIdentifierUNII/Particles (SubstanceRegistration)) (SubstanceRegistrationSystem-UniqueIngredientIdentifierUNII/Particles (SubstanceRegistrationSystem-UniqueIngredientIdentifierUNII/Particles (SubstanceRegistration)) (SubstanceRegistration)) (SubstanceRegistration) (SubstanceRegistration)) (SubstanceRegistration)) (SubstanceRegistration) (SubstanceRegistration)) (SubstanceRegistration)) (SubstanceRegistration)) (SubstanceRegistration)) (SubstanceRegistration) (SubstanceRegistration)) (SubstanceRegistration)) (SubstanceRegistration) (SubstanceRegistration)) (SubstanceRegistration) (SubstanceRegistration)) (SubstanceRegistration)) (SubstanceRegistration)) (SubstanceRegi

9. NMRShiftDB

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10. NIST Mass Spectrometry Data Center

https://www.nist.gov/srd/public-law

11. SpectraBase

N,N-DIETHYLACETAMIDE

https://spectrabase.com/spectrum/EV50tV6dzj5

ACETAMIDE, N,N-DIETHYL-

https://spectrabase.com/spectrum/AFjso4cTESb

Diethylamine AC

https://spectrabase.com/spectrum/5hJVT86lwpE

Diethylamine AC

https://spectrabase.com/spectrum/DOyhSbdvDZg

Acetamide, N,N-diethyl-

https://spectrabase.com/spectrum/Aod1d250nnk

Acetamide, N,N-diethyl-

https://spectrabase.com/spectrum/3nyEkeRSCem

Acetamide, N,N-diethyl-

https://spectrabase.com/spectrum/3J3RAWb7rmK

Acetamide, N,N-diethyl-

https://spectrabase.com/spectrum/IF2we0ARvyi

Acetamide, N,N-diethyl-

https://spectrabase.com/spectrum/KmvDNTqBmDo

Acetamide, N,N-diethyl-

https://spectrabase.com/spectrum/E9l0YeJiV6

Acetamide, N,N-diethyl-

https://spectrabase.com/spectrum/AmLDZIru1j6

N,N-DIETHYLACETAMIDE

https://spectrabase.com/spectrum/75fPM6DPOUA

DIETHYLACETAMID

https://spectrabase.com/spectrum/2T831UD188

AJFDBNQQDYLMJN-UHFFFAOYSA-N

https://spectrabase.com/spectrum/H4nbLJKQcXR https://spectrabase.com/spectrum/DmVyQ8A2oTw

Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/DD2dNJ0MMlt

Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/DnlK5djBpmZ

Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/2r7kfQfu1pc

Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/1gvoWiR7kMW

Methyl-N,N-diethyl-formamide https://spectrabase.com/spectrum/5CSxBlf9y6L

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Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/BKtPVnlo4eK

Methyl-N,N-diethyl-formamide https://spectrabase.com/spectrum/FC5uOets25c

Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/Lr6R7AsrNfV

Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/GcC3wZ4jGdz

Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/5fYUWM1RSh2

Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/9s35UcMCCqS

Methyl-N,N-diethyl-formamide https://spectrabase.com/spectrum/66nIHCDAqKv

Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/AplYBs6Wvbj

Methyl-N,N-diethyl-formamide https://spectrabase.com/spectrum/Lbl24WatdLQ

Methyl-N,N-diethyl-formamide

https://spectrabase.com/spectrum/HHHRJawC2wG

N,N-Diethylacetamide

https://spectrabase.com/spectrum/3YmWkoGNQN9

N,N-diethylacetamide

https://spectrabase.com/spectrum/3pnEYmdLqX2

N,N-Diethylacetamide

https://spectrabase.com/spectrum/FlL4IxRcXgu

N,N-DIETHYL-ACETAMIDE

https://spectrabase.com/spectrum/LS1PgzCAnZA

ACETAMIDE, N,N-DIETHYL-,

https://spectrabase.com/spectrum/A0kavyzhF0Y

N,N-Diethylacetamide

https://spectrabase.com/spectrum/5W6fELgRV0S

Acetamide, N,N-diethylhttps://spectrabase.com/sp

https://spectrabase.com/spectrum/J1lBCSFf8St

Acetamide, N,N-diethyl-

https://spectrabase.com/spectrum/DqvA3q9k5rg

N,N-Diethylacetamide

https://spectrabase.com/spectrum/ELkzAoXwYB0

N,N-Diethylacetamide

https://spectrabase.com/spectrum/3K3wn5fG2bR

N,N-Diethylacetamide

https://spectrabase.com/spectrum/2rSW7AqiwaV

Methyl-N,N-diethyl-formamide

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https://www.ncbi.nlm.nih.gov/mesh/67032711

MeSH Tree

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

18. UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

GHS Classification Tree

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

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