

2-DIETHYLAMINO-N-(2,6-XYLYL)ACETAMIDE

Other names:

2',6'-Acetoxylidide, 2-(diethylamino)-
2-(Diethylamino)-2',6'-acetoxylidide
2-(diethylamino)-N-(2,6-dimethylphenyl)acetamide
2-diethylamino-N-(2,6-dimethylphenyl)acetamide
Anbesol
Anestacon
Cappicaine
Cito optadren
Cuivasil
Dalcaine
Diethylaminoacet-2,6-xylidide
Diethylaminoaceto-2,6-xylidide
Duncaine
ELA-Max
Esracaine
Gravocain
Isicaina
Isicaine
Jetocaine
L-Caine
Leostesin
Lida-Mantle
Lidoderm
Lignocaine
Maricaine
Remicaine
Rucaina
Solarcaine
Solcain
Xilina
Xilocaina
Xycaine
Xylestesin
Xyline
Xylocain
Xylocaine
Xylocitin
Xyloneural (free base)
Xylotox
acetamide, 2-(diethylamino)-N-(2,6-dimethylphenyl)-

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

alfa-Dietilamino-2,6-dimetilacetanilide
lidocaine
«alpha»-(Diethylamino)-2,6-acetoxylidide
«alpha»-Diethylamino-2,6-dimethylacetanilide
«alpha»-Diethylaminoaceto-2,6-xylidide
«omega»-Diethylamino-2,6-dimethylacetanilide
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,
NNJVILVZKWQKPM-UHFFFAOYSA-N
C14H22N2O
CCN(CC)CC(=O)Nc1c(C)cccc1C
234.34

Physical Properties

Property code	Value	Unit	Source
hfus	35.00	kJ/mol	Joback Method
ie	7.39	eV	Cheméo Relay (1.0)
log10ws	-1.87		Aqueous Solubility Prediction Method
log10ws	-1.77		Aqueous Solubility Prediction Method
logp	2.584		Crippen Method
mcvol	205.890	ml/mol	McGowan Method
rinpol	1880.00		NIST Webbook
rinpol	1865.00		NIST Webbook
rinpol	1859.00		NIST Webbook
rinpol	1866.00		NIST Webbook
rinpol	1885.00		NIST Webbook
rinpol	1875.00		NIST Webbook
rinpol	1869.00		NIST Webbook
rinpol	1860.00		NIST Webbook
rinpol	1884.00		NIST Webbook
rinpol	1838.00		NIST Webbook
rinpol	1881.00		NIST Webbook
rinpol	1890.00		NIST Webbook
rinpol	1880.00		NIST Webbook
rinpol	1880.00		NIST Webbook
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rinpol	1882.00		NIST Webbook
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rinpol	1841.00		NIST Webbook
rinpol	1842.00		NIST Webbook
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rinpol	1893.00		NIST Webbook
rinpol	1875.00		NIST Webbook
rinpol	1875.00		NIST Webbook
rinpol	1882.00		NIST Webbook
rinpol	1875.00		NIST Webbook
rinpol	1852.00		NIST Webbook
rinpol	1842.00		NIST Webbook
rinpol	1859.00		NIST Webbook
tf	341.65	K	Aqueous Solubility Prediction Method
tf	341.65	K	Aqueous Solubility Prediction Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	560.26	J/mol×K	672.84	Joback Method
cpg	576.33	J/mol×K	706.43	Joback Method
cpg	591.46	J/mol×K	740.02	Joback Method
cpg	605.68	J/mol×K	773.61	Joback Method
cpg	619.04	J/mol×K	807.20	Joback Method
cpg	631.58	J/mol×K	840.79	Joback Method

cpg	643.32	J/mol×K	874.39	Joback Method
hfus	16.40	kJ/mol	340.70	NIST Webbook
hfust	18.80	kJ/mol	341.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	454.20	K	0.50	NIST Webbook

Sources

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset003.xlsx/351830174/AqueousDataset003.xlsx>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C137586&Units=SI>

Interpretation of the global heat of melting in eutectic binary systems: <https://www.doi.org/10.1016/j.tca.2018.04.011>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Thermodynamic properties of hydrophobic deep eutectic solvents <https://www.doi.org/10.1016/j.fluid.2019.02.010>

The Solubility of Benzocaine in <https://www.doi.org/10.1021/je034163p>

hydrocarbons and fluorinated liquids and

Supercritical Carbon Dioxide:

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tbrp:	Boiling point at reduced pressure
tf:	Normal melting (fusion) point

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