

# 2-Propaneamine, N,N-diethyl-

<b>Other names:</b>	(i-C <sub>3</sub> H <sub>7</sub> )N(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> 2-Propanamine, N,N-diethyl- Diethylisopropylamine
<b>Inchi:</b>	InChI=1S/C7H17N/c1-5-8(6-2)7(3)4/h7H,5-6H2,1-4H3
<b>InchiKey:</b>	ULWOJODHECIZAU-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>7</sub> H <sub>17</sub> N
<b>SMILES:</b>	CCN(CC)C(C)C
<b>Mol. weight [g/mol]:</b>	115.22
<b>CAS:</b>	6006-15-1

## Physical Properties

Property code	Value	Unit	Source
affp	996.40	kJ/mol	NIST Webbook
basg	965.60	kJ/mol	NIST Webbook
gf	116.40	kJ/mol	Joback Method
hf	-125.56	kJ/mol	Joback Method
hfus	13.38	kJ/mol	Joback Method
hvap	32.83	kJ/mol	Joback Method
log10ws	-1.43		Crippen Method
logp	1.737		Crippen Method
mcvol	119.470	ml/mol	McGowan Method
pc	2817.33	kPa	Joback Method
rinpol	742.00		NIST Webbook
rinpol	737.00		NIST Webbook
tb	381.65 ± 3.00	K	NIST Webbook
tc	537.88	K	Joback Method
tf	186.12	K	Joback Method
vc	0.440	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	221.23	J/mol×K	371.56	Joback Method
cpg	234.61	J/mol×K	399.28	Joback Method

cpg	247.47	J/mol×K	427.00	Joback Method
cpg	259.82	J/mol×K	454.72	Joback Method
cpg	271.66	J/mol×K	482.44	Joback Method
cpg	283.03	J/mol×K	510.16	Joback Method
cpg	293.92	J/mol×K	537.88	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.56401e+01
Coeff. B	-3.68570e+03
Coeff. C	-4.72490e+01
Temperature range (K), min.	287.32
Temperature range (K), max.	404.09

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6006151&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6006151&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>pvap:</b>	Vapor pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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