

# 2-(Propylamino)ethanol

<b>Other names:</b>	Ethanol, 2-(propylamino)-
<b>Inchi:</b>	InChI=1S/C5H13NO/c1-2-3-6-4-5-7/h6-7H,2-5H2,1H3
<b>InchiKey:</b>	BCLSJHWBDUYDTR-UHFFFAOYSA-N
<b>Formula:</b>	C5H13NO
<b>SMILES:</b>	CCCNCCO
<b>Mol. weight [g/mol]:</b>	103.16
<b>CAS:</b>	16369-21-4

## Physical Properties

Property code	Value	Unit	Source
gf	-56.21	kJ/mol	Joback Method
hf	-245.29	kJ/mol	Joback Method
hfus	17.89	kJ/mol	Joback Method
hvap	49.84	kJ/mol	Joback Method
log10ws	-0.37		Crippen Method
logp	-0.022		Crippen Method
mcvol	97.160	ml/mol	McGowan Method
pc	3940.66	kPa	Joback Method
tb	456.15	K	Joback Method
tc	622.16	K	Joback Method
tf	259.59	K	Joback Method
vc	0.369	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.54	J/mol×K	456.15	Joback Method
cpg	218.58	J/mol×K	483.82	Joback Method
cpg	227.28	J/mol×K	511.49	Joback Method
cpg	235.64	J/mol×K	539.16	Joback Method
cpg	243.66	J/mol×K	566.82	Joback Method
cpg	251.37	J/mol×K	594.49	Joback Method
cpg	258.76	J/mol×K	622.16	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	455.20	K	99.50	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.49950e+01
Coeff. B	-4.13921e+03
Coeff. C	-6.76820e+01
Temperature range (K), min.	349.12
Temperature range (K), max.	495.13

## Sources

The Yaws Handbook of Vapor Pressure:	<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>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307i">http://pubs.acs.org/doi/abs/10.1021/ci990307i</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C16369214&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16369214&amp;Units=SI</a>

## Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions

<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>p<sub>c</sub>:</b>	Critical Pressure
<b>p<sub>vap</sub>:</b>	Vapor pressure
<b>t<sub>b</sub>:</b>	Normal Boiling Point Temperature
<b>t<sub>brp</sub>:</b>	Boiling point at reduced pressure
<b>t<sub>c</sub>:</b>	Critical Temperature
<b>t<sub>f</sub>:</b>	Normal melting (fusion) point
<b>v<sub>c</sub>:</b>	Critical Volume

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