

# Ethanol, 2-[(phenylmethyl)amino]-

<b>Other names:</b>	(N-Benzylamino)ethanol 2-(Benzylamino)ethanol 2-benzylaminoethanol Benzylaminoethanol Benzylethanolamine Ethanol, 2-(benzylamino)- N-Benzyl-N-ethanolamine N-benzylethanolamine NSC 11271
<b>Inchi:</b>	InChI=1S/C9H13NO/c11-7-6-10-8-9-4-2-1-3-5-9/h1-5,10-11H,6-8H2
<b>InchiKey:</b>	XNIOWJUQPMKCIJ-UHFFFAOYSA-N
<b>Formula:</b>	C9H13NO
<b>SMILES:</b>	OCCNCc1ccccc1
<b>Mol. weight [g/mol]:</b>	151.21
<b>CAS:</b>	104-63-2

## Physical Properties

Property code	Value	Unit	Source
gf	89.88	kJ/mol	Joback Method
hf	-91.32	kJ/mol	Joback Method
hfus	22.29	kJ/mol	Joback Method
hvap	74.50	kJ/mol	NIST Webbook
log10ws	-1.64		Crippen Method
logp	0.768		Crippen Method
mcvol	129.760	ml/mol	McGowan Method
pc	3690.97	kPa	Joback Method
rinpol	1349.00		NIST Webbook
rinpol	1349.00		NIST Webbook
tb	574.35	K	Joback Method
tc	770.35	K	Joback Method
tf	331.09	K	Joback Method
vc	0.485	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.53	J/mol×K	770.35	Joback Method
cpg	364.93	J/mol×K	737.68	Joback Method
cpg	355.77	J/mol×K	705.02	Joback Method
cpg	346.03	J/mol×K	672.35	Joback Method
cpg	335.66	J/mol×K	639.68	Joback Method
cpg	324.64	J/mol×K	607.02	Joback Method
cpg	312.95	J/mol×K	574.35	Joback Method
hvapt	71.70	kJ/mol	328.00	NIST Webbook
pvap	0.24	kPa	362.91	Experimental vapor pressures of 1,2-bis(dimethylamino)ethane, 1-methylmorpholine, 1,2-bis(2-aminoethoxy)ethane and N-benzylethanolamine between 273.18 and 364.97K
pvap	0.11	kPa	352.92	Experimental vapor pressures of 1,2-bis(dimethylamino)ethane, 1-methylmorpholine, 1,2-bis(2-aminoethoxy)ethane and N-benzylethanolamine between 273.18 and 364.97K
pvap	0.03	kPa	332.89	Experimental vapor pressures of 1,2-bis(dimethylamino)ethane, 1-methylmorpholine, 1,2-bis(2-aminoethoxy)ethane and N-benzylethanolamine between 273.18 and 364.97K
pvap	0.03	kPa	332.88	Experimental vapor pressures of 1,2-bis(dimethylamino)ethane, 1-methylmorpholine, 1,2-bis(2-aminoethoxy)ethane and N-benzylethanolamine between 273.18 and 364.97K

pvap	5.20e-03	kPa	312.85	Experimental vapor pressures of 1,2-bis(dimethylamino)ethane, 1-methylmorpholine, 1,2-bis(2-aminoethoxy)ethane and N-benzylethanolamine between 273.18 and 364.97K
pvap	7.82e-04	kPa	292.82	Experimental vapor pressures of 1,2-bis(dimethylamino)ethane, 1-methylmorpholine, 1,2-bis(2-aminoethoxy)ethane and N-benzylethanolamine between 273.18 and 364.97K
pvap	0.23	kPa	362.91	Experimental vapor pressures of 1,2-bis(dimethylamino)ethane, 1-methylmorpholine, 1,2-bis(2-aminoethoxy)ethane and N-benzylethanolamine between 273.18 and 364.97K

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	427.70	K	1.60	NIST Webbook

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<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=C104632&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C104632&amp;Units=SI</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>Experimental vapor pressures of 1,2-bis(dimethylamino)ethane, 1-methylmorpholine, 1,2-bis(2-aminoethoxy)ethane and N-benzylethanolamine between 273.18 and 364.97K</b>	<a href="https://www.doi.org/10.1016/j.fluid.2009.04.006">https://www.doi.org/10.1016/j.fluid.2009.04.006</a>
<b>Investigation of the isothermal (vapour) liquid equilibria of p-URANS and 3-dimethylamino-1-propanol (AMP) solutions at several temperatures:</b>	<a href="https://www.doi.org/10.1016/j.jct.2010.04.015">https://www.doi.org/10.1016/j.jct.2010.04.015</a>

# Legend

<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>h vap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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