

# 2-(Pentylamino)ethanol

<b>Other names:</b>	2-(n-Amylamino)ethanol Ethanol, 2-(pentylamino)- n-Pentylaminoethanol N-Pentylethanolamine 2-(Amylamino)ethanol
<b>Inchi:</b>	InChI=1S/C7H17NO/c1-2-3-4-5-8-6-7-9/h8-9H,2-7H2,1H3
<b>InchiKey:</b>	SALYKAIZVOFAEJ-UHFFFAOYSA-N
<b>Formula:</b>	C7H17NO
<b>SMILES:</b>	CCCCCNCCO
<b>Mol. weight [g/mol]:</b>	131.22
<b>CAS:</b>	35161-67-2

## Physical Properties

Property code	Value	Unit	Source
gf	-39.37	kJ/mol	Joback Method
hf	-286.57	kJ/mol	Joback Method
hfus	23.07	kJ/mol	Joback Method
hvap	54.29	kJ/mol	Joback Method
log10ws	-1.21		Crippen Method
logp	0.758		Crippen Method
mcvol	125.340	ml/mol	McGowan Method
pc	3138.51	kPa	Joback Method
tb	501.91	K	Joback Method
tc	666.01	K	Joback Method
tf	282.13	K	Joback Method
vc	0.481	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	293.45	J/mol×K	501.91	Joback Method
cpg	304.48	J/mol×K	529.26	Joback Method
cpg	315.07	J/mol×K	556.61	Joback Method
cpg	325.24	J/mol×K	583.96	Joback Method

cpg	335.00	J/mol×K	611.31	Joback Method
cpg	344.37	J/mol×K	638.66	Joback Method
cpg	353.34	J/mol×K	666.01	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C35161672&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35161672&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>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>

## 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>hvp:</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>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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