

# Acetamide, n,n'-propylenebis-

<b>Inchi:</b>	InChI=1S/C7H14N2O2/c1-5(9-7(3)11)4-8-6(2)10/h5H,4H2,1-3H3,(H,8,10)(H,9,11)
<b>InchiKey:</b>	KFIBJZAPFOKDKB-UHFFFAOYSA-N
<b>Formula:</b>	C7H14N2O2
<b>SMILES:</b>	CC(=O)NCC(C)NC(C)=O
<b>Mol. weight [g/mol]:</b>	158.20
<b>CAS:</b>	3073-56-1

## Physical Properties

Property code	Value	Unit	Source
gf	-73.44	kJ/mol	Joback Method
hf	-311.31	kJ/mol	Joback Method
hfus	23.76	kJ/mol	Joback Method
hvap	57.15	kJ/mol	Joback Method
log10ws	-0.79		Crippen Method
logp	-0.353		Crippen Method
mcvol	132.590	ml/mol	McGowan Method
pc	3341.24	kPa	Joback Method
tb	567.20	K	Joback Method
tc	762.41	K	Joback Method
tf	358.83	K	Joback Method
vc	0.503	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.02	J/molxK	567.20	Joback Method
cpg	334.64	J/molxK	599.73	Joback Method
cpg	345.66	J/molxK	632.27	Joback Method
cpg	356.08	J/molxK	664.80	Joback Method
cpg	365.93	J/molxK	697.34	Joback Method
cpg	375.22	J/molxK	729.87	Joback Method
cpg	383.97	J/molxK	762.41	Joback Method

# 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=C3073561&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3073561&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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>mccvol:</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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