

# Acetamide, N-acetyl-N-butyl-

<b>Other names:</b>	Diacetamide, N-butyl- N,N-Diacetylbutylamine N-Acetyl-n-butylacetamide
<b>Inchi:</b>	InChI=1S/C8H15NO2/c1-4-5-6-9(7(2)10)8(3)11/h4-6H2,1-3H3
<b>InchiKey:</b>	FEOFWXBYTMJIBA-UHFFFAOYSA-N
<b>Formula:</b>	C8H15NO2
<b>SMILES:</b>	CCCCN(C(C)=O)C(C)=O
<b>Mol. weight [g/mol]:</b>	157.21
<b>CAS:</b>	1563-86-6

## Physical Properties

Property code	Value	Unit	Source
gf	-130.58	kJ/mol	Joback Method
hf	-366.08	kJ/mol	Joback Method
hfus	22.70	kJ/mol	Joback Method
hvap	64.40 ± 0.40	kJ/mol	NIST Webbook
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log10ws	-1.29		Crippen Method
logp	1.181		Crippen Method
mcvol	136.700	ml/mol	McGowan Method
pc	2884.30	kPa	Joback Method
tb	502.62	K	Joback Method
tc	686.30	K	Joback Method
tf	312.25	K	Joback Method
vc	0.513	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.89	J/mol×K	502.62	Joback Method
cpg	320.47	J/mol×K	533.23	Joback Method
cpg	332.45	J/mol×K	563.85	Joback Method
cpg	343.84	J/mol×K	594.46	Joback Method
cpg	354.67	J/mol×K	625.08	Joback Method

cpg	364.94	J/mol×K	655.69	Joback Method
cpg	374.69	J/mol×K	686.30	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1563866&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1563866&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>

## 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>hvac:</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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