

# Butanamide, 3-methyl-N-butyl-

<b>Other names:</b>	Butanamide, N-butyl-3-methyl
<b>Inchi:</b>	InChI=1S/C9H19NO/c1-4-5-6-10-9(11)7-8(2)3/h8H,4-7H2,1-3H3,(H,10,11)
<b>InchiKey:</b>	UJDKAQWPQSWESO-UHFFFAOYSA-N
<b>Formula:</b>	C9H19NO
<b>SMILES:</b>	CCCCNC(=O)CC(C)C
<b>Mol. weight [g/mol]:</b>	157.25
<b>CAS:</b>	76526-42-6

## Physical Properties

Property code	Value	Unit	Source
gf	-17.07	kJ/mol	Joback Method
hf	-293.48	kJ/mol	Joback Method
hfus	22.24	kJ/mol	Joback Method
hvap	48.42	kJ/mol	Joback Method
log10ws	-2.31		Crippen Method
logp	1.949		Crippen Method
mcvol	149.220	ml/mol	McGowan Method
pc	2505.01	kPa	Joback Method
rinpol	1261.00		NIST Webbook
rinpol	1261.00		NIST Webbook
tb	508.92	K	Joback Method
tc	689.58	K	Joback Method
tf	278.78	K	Joback Method
vc	0.575	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.35	J/molxK	508.92	Joback Method
cpg	361.50	J/molxK	539.03	Joback Method
cpg	375.03	J/molxK	569.14	Joback Method
cpg	387.95	J/molxK	599.25	Joback Method
cpg	400.29	J/molxK	629.36	Joback Method
cpg	412.05	J/molxK	659.47	Joback Method

## 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=C76526426&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C76526426&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>

## 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<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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