

# Butanamide, N-isobutyl-3-methyl

<b>Inchi:</b>	InChI=1S/C9H19NO/c1-7(2)5-9(11)10-6-8(3)4/h7-8H,5-6H2,1-4H3,(H,10,11)
<b>InchiKey:</b>	BPDCZYLPNNLOBD-UHFFFAOYSA-N
<b>Formula:</b>	C9H19NO
<b>SMILES:</b>	CC(C)CNC(=O)CC(C)C
<b>Mol. weight [g/mol]:</b>	157.25

## Physical Properties

Property code	Value	Unit	Source
gf	-19.51	kJ/mol	Joback Method
hf	-298.76	kJ/mol	Joback Method
hfus	18.72	kJ/mol	Joback Method
hvap	48.03	kJ/mol	Joback Method
log10ws	-2.07		Crippen Method
logp	1.805		Crippen Method
mcvol	149.220	ml/mol	McGowan Method
pc	2525.19	kPa	Joback Method
rinqol	1218.00		NIST Webbook
tb	508.48	K	Joback Method
tc	692.88	K	Joback Method
tf	263.78	K	Joback Method
vc	0.569	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.57	J/mol×K	508.48	Joback Method
cpg	362.09	J/mol×K	539.21	Joback Method
cpg	375.94	J/mol×K	569.95	Joback Method
cpg	389.16	J/mol×K	600.68	Joback Method
cpg	401.76	J/mol×K	631.41	Joback Method
cpg	413.76	J/mol×K	662.15	Joback Method
cpg	425.17	J/mol×K	692.88	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=R50501&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R50501&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>rinpola:</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

Latest version available from:

<https://www.chemeo.com/cid/25-440-5/Butanamide-N-isobutyl-3-methyl.pdf>

Generated by Cheméo on 2024-04-24 05:40:04.122911435 +0000 UTC m=+16226453.043488751.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.