

# Propanamide, N-isobutyl-2,2-dimethyl

<b>Inchi:</b>	InChI=1S/C9H19NO/c1-7(2)6-10-8(11)9(3,4)5/h7H,6H2,1-5H3,(H,10,11)
<b>InchiKey:</b>	RNMWYCQHYZNXRL-UHFFFAOYSA-N
<b>Formula:</b>	C9H19NO
<b>SMILES:</b>	CC(C)CNC(=O)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	157.25

## Physical Properties

Property code	Value	Unit	Source
gf	-14.23	kJ/mol	Joback Method
hf	-302.23	kJ/mol	Joback Method
hfus	14.83	kJ/mol	Joback Method
hvap	47.13	kJ/mol	Joback Method
log10ws	-2.07		Crippen Method
logp	1.805		Crippen Method
mcvol	149.220	ml/mol	McGowan Method
pc	2553.34	kPa	Joback Method
rinsol	1136.00		NIST Webbook
tb	505.69	K	Joback Method
tc	697.21	K	Joback Method
tf	281.20	K	Joback Method
vc	0.564	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.32	J/mol×K	505.69	Joback Method
cpg	365.54	J/mol×K	537.61	Joback Method
cpg	379.95	J/mol×K	569.53	Joback Method
cpg	393.58	J/mol×K	601.45	Joback Method
cpg	406.47	J/mol×K	633.37	Joback Method
cpg	418.64	J/mol×K	665.29	Joback Method
cpg	430.13	J/mol×K	697.21	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=R50935&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R50935&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>

# 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

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