

# 2-Propenamide, N-(1,1-dimethyl-3-oxobutyl)-

<b>Other names:</b>	Acrylamide, N-(1,1-dimethyl-3-oxobutyl)- Diacetone acrylamide N-(1,1-Dimethyl-3-oxobutyl)acrylamide N-(1,1-Dimethyl-3-oxobutyl)-2-propenamide N-(2-(2-Methyl-4-oxopentyl))acrylamide
<b>Inchi:</b>	InChI=1S/C9H15NO2/c1-5-8(12)10-9(3,4)6-7(2)11/h5H,1,6H2,2-4H3,(H,10,12)
<b>InchiKey:</b>	OMNKZBIFPJNNIO-UHFFFAOYSA-N
<b>Formula:</b>	C9H15NO2
<b>SMILES:</b>	C=CC(=O)NC(C)(C)CC(C)=O
<b>Mol. weight [g/mol]:</b>	169.22
<b>CAS:</b>	2873-97-4

## Physical Properties

Property code	Value	Unit	Source
gf	-52.87	kJ/mol	Joback Method
hf	-284.10	kJ/mol	Joback Method
hfus	18.67	kJ/mol	Joback Method
hvap	53.59	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	1.046		Crippen Method
mcvol	146.490	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
tb	556.68	K	Joback Method
tc	756.73	K	Joback Method
tf	344.37	K	Joback Method
vc	0.556	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.49	J/molxK	556.68	Joback Method
cpg	364.49	J/molxK	590.02	Joback Method
cpg	376.69	J/molxK	623.36	Joback Method
cpg	388.14	J/molxK	656.71	Joback Method

cpg	398.87	J/mol×K	690.05	Joback Method
cpg	408.93	J/mol×K	723.39	Joback Method
cpg	418.35	J/mol×K	756.73	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2873974&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2873974&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>
<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>

## 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>hvp:</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>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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