

# Propanamide, 2,2-dimethyl-N-(3-nitrophenyl)-

<b>Other names:</b>	2,2-Dimethyl-N-(3-nitrophenyl)propanamide Propanamide, N-(3-nitrophenyl)-2,2-dimethyl-
<b>Inchi:</b>	InChI=1S/C11H14N2O3/c1-11(2,3)10(14)12-8-5-4-6-9(7-8)13(15)16/h4-7H,1-3H3,(H,12,
<b>InchiKey:</b>	YYVSAQXZGZPPHQ-UHFFFAOYSA-N
<b>Formula:</b>	C11H14N2O3
<b>SMILES:</b>	CC(C)(C)C(=O)Nc1cccc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	222.24
<b>CAS:</b>	32597-30-1

## Physical Properties

Property code	Value	Unit	Source
gf	143.38	kJ/mol	Joback Method
hf	-123.93	kJ/mol	Joback Method
hfus	28.54	kJ/mol	Joback Method
hvap	71.50	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	2.579		Crippen Method
mcvol	171.060	ml/mol	McGowan Method
pc	2918.68	kPa	Joback Method
rinpol	1867.00		NIST Webbook
rinpol	1867.00		NIST Webbook
tb	735.39	K	Joback Method
tc	982.17	K	Joback Method
tf	501.29	K	Joback Method
vc	0.655	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.07	J/molxK	735.39	Joback Method
cpg	485.90	J/molxK	776.52	Joback Method
cpg	497.64	J/molxK	817.65	Joback Method
cpg	508.38	J/molxK	858.78	Joback Method
cpg	518.20	J/molxK	899.91	Joback Method

cpg	527.21	J/mol×K	941.04	Joback Method
cpg	535.49	J/mol×K	982.17	Joback Method

## Sources

<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=C32597301&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C32597301&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>

## 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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