

# Propanamide, N-tert.-butyl-2-methyl

<b>Inchi:</b>	InChI=1S/C8H17NO/c1-6(2)7(10)9-8(3,4)5/h6H,1-5H3,(H,9,10)
<b>InchiKey:</b>	OEIZGTXQZLSLFL-UHFFFAOYSA-N
<b>Formula:</b>	C8H17NO
<b>SMILES:</b>	CC(C)C(=O)NC(C)(C)C
<b>Mol. weight [g/mol]:</b>	143.23

## Physical Properties

Property code	Value	Unit	Source
gf	-22.65	kJ/mol	Joback Method
hf	-281.59	kJ/mol	Joback Method
hfus	12.24	kJ/mol	Joback Method
hvap	44.90	kJ/mol	Joback Method
log10ws	-2.01		Crippen Method
logp	1.557		Crippen Method
mcvol	135.130	ml/mol	McGowan Method
pc	2820.33	kPa	Joback Method
rinpola	983.00		NIST Webbook
tb	482.81	K	Joback Method
tc	676.67	K	Joback Method
tf	269.93	K	Joback Method
vc	0.507	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	305.28	J/mol×K	482.81	Joback Method
cpg	319.69	J/mol×K	515.12	Joback Method
cpg	333.32	J/mol×K	547.43	Joback Method
cpg	346.20	J/mol×K	579.74	Joback Method
cpg	358.36	J/mol×K	612.05	Joback Method
cpg	369.84	J/mol×K	644.36	Joback Method
cpg	380.66	J/mol×K	676.67	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R51008&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R51008&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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