

# Propanamide, 2-methyl-N-ethyl-N-butyl-

<b>Inchi:</b>	InChI=1S/C10H21NO/c1-5-7-8-11(6-2)10(12)9(3)4/h9H,5-8H2,1-4H3
<b>InchiKey:</b>	ZBBHQFJZPCHUOA-UHFFFAOYSA-N
<b>Formula:</b>	C10H21NO
<b>SMILES:</b>	CCCCN(CC)C(=O)C(C)C
<b>Mol. weight [g/mol]:</b>	171.28

## Physical Properties

Property code	Value	Unit	Source
gf	12.74	kJ/mol	Joback Method
hf	-300.06	kJ/mol	Joback Method
hfus	22.75	kJ/mol	Joback Method
hvap	46.26	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	2.291		Crippen Method
mvol	163.310	ml/mol	McGowan Method
pc	2248.26	kPa	Joback Method
rinpol	1388.00		NIST Webbook
rinpol	1388.00		NIST Webbook
tb	494.07	K	Joback Method
tc	668.70	K	Joback Method
tf	269.86	K	Joback Method
vc	0.614	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	376.04	J/mol×K	494.07	Joback Method
cpg	391.55	J/mol×K	523.17	Joback Method
cpg	406.38	J/mol×K	552.28	Joback Method
cpg	420.55	J/mol×K	581.38	Joback Method
cpg	434.07	J/mol×K	610.49	Joback Method
cpg	446.96	J/mol×K	639.59	Joback Method
cpg	459.25	J/mol×K	668.70	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=U415341&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415341&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>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>rinp:</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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