

# Propanamide, N-isobutyl

<b>Inchi:</b>	InChI=1S/C7H15NO/c1-4-7(9)8-5-6(2)3/h6H,4-5H2,1-3H3,(H,8,9)
<b>InchiKey:</b>	QTVUDNOFBZLOHM-UHFFFAOYSA-N
<b>Formula:</b>	C7H15NO
<b>SMILES:</b>	CCC(=O)NCC(C)C
<b>Mol. weight [g/mol]:</b>	129.20

## Physical Properties

Property code	Value	Unit	Source
gf	-33.91	kJ/mol	Joback Method
hf	-252.20	kJ/mol	Joback Method
hfus	17.06	kJ/mol	Joback Method
hvap	43.97	kJ/mol	Joback Method
log10ws	-1.48		Crippen Method
logp	1.169		Crippen Method
mcvol	121.040	ml/mol	McGowan Method
pc	3065.95	kPa	Joback Method
rinsol	1091.00		NIST Webbook
tb	463.16	K	Joback Method
tc	647.45	K	Joback Method
tf	256.24	K	Joback Method
vc	0.463	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.41	J/mol×K	463.16	Joback Method
cpg	271.69	J/mol×K	493.87	Joback Method
cpg	283.44	J/mol×K	524.59	Joback Method
cpg	294.67	J/mol×K	555.30	Joback Method
cpg	305.40	J/mol×K	586.02	Joback Method
cpg	315.63	J/mol×K	616.73	Joback Method
cpg	325.37	J/mol×K	647.45	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R50921&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R50921&amp;Units=SI</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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

Latest version available from:

<https://www.chemeo.com/cid/31-628-0/Propanamide-N-isobutyl.pdf>

Generated by Cheméo on 2024-04-19 18:40:50.829804569 +0000 UTC m=+15841299.750381881.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.