

# Isobutyramide, N-hexyl-

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

## Physical Properties

Property code	Value	Unit	Source
gf	-8.65	kJ/mol	Joback Method
hf	-314.12	kJ/mol	Joback Method
hfus	24.83	kJ/mol	Joback Method
hvap	50.65	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	2.339		Crippen Method
mcvol	163.310	ml/mol	McGowan Method
pc	2280.59	kPa	Joback Method
rinpol	1393.00		NIST Webbook
rinpol	1393.00		NIST Webbook
tb	531.80	K	Joback Method
tc	710.71	K	Joback Method
tf	290.05	K	Joback Method
vc	0.630	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.18	J/mol×K	531.80	Joback Method
cpg	409.10	J/mol×K	561.62	Joback Method
cpg	423.37	J/mol×K	591.44	Joback Method
cpg	436.99	J/mol×K	621.25	Joback Method
cpg	450.00	J/mol×K	651.07	Joback Method
cpg	462.39	J/mol×K	680.89	Joback Method
cpg	474.20	J/mol×K	710.71	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U407091&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407091&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>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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