

# Isobutyl-propyl-amine

<b>Other names:</b>	(2-Methyl-n-propyl)-1-propanamine Propylisobutylamine N-Isobutyl-N-propylamine isobutyl-n-propyl-amine
<b>Inchi:</b>	InChI=1S/C7H17N/c1-4-5-8-6-7(2)3/h7-8H,4-6H2,1-3H3
<b>InchiKey:</b>	SQGSVBHTFQOZDL-UHFFFAOYSA-N
<b>Formula:</b>	C7H17N
<b>SMILES:</b>	CCCNCC(C)C
<b>Mol. weight [g/mol]:</b>	115.22
<b>CAS:</b>	39190-66-4

## Physical Properties

Property code	Value	Unit	Source
gf	95.01	kJ/mol	Joback Method
hf	-139.62	kJ/mol	Joback Method
hfus	15.46	kJ/mol	Joback Method
hvap	37.22	kJ/mol	Joback Method
log10ws	-1.70		Crippen Method
logp	1.642		Crippen Method
mcvol	119.470	ml/mol	McGowan Method
pc	2862.74	kPa	Joback Method
rinpol	797.00		NIST Webbook
rinpol	797.00		NIST Webbook
ripol	918.00		NIST Webbook
ripol	918.00		NIST Webbook
tb	397.15 ± 2.00	K	NIST Webbook
tc	582.34	K	Joback Method
tf	206.31	K	Joback Method
vc	0.457	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	238.14	J/molxK	409.29	Joback Method

cpg	251.08	J/mol×K	438.13	Joback Method
cpg	263.53	J/mol×K	466.97	Joback Method
cpg	275.48	J/mol×K	495.82	Joback Method
cpg	286.96	J/mol×K	524.66	Joback Method
cpg	297.97	J/mol×K	553.50	Joback Method
cpg	308.53	J/mol×K	582.34	Joback Method

## Sources

<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=C39190664&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C39190664&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>

## 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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	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/13-224-8/Isobutyl-propyl-amine.pdf>

Generated by Cheméo on 2024-04-23 14:19:59.878983361 +0000 UTC m=+16171248.799560676.

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