

# 2-Nitro-2-methyl-1-butanol

<b>Inchi:</b>	InChI=1S/C5H11NO3/c1-3-5(2,4-7)6(8)9/h7H,3-4H2,1-2H3
<b>InchiKey:</b>	SEAMRWZKMYUKOI-UHFFFAOYSA-N
<b>Formula:</b>	C5H11NO3
<b>SMILES:</b>	CCC(C)(CO)[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	133.15

## Physical Properties

Property code	Value	Unit	Source
gf	-107.21	kJ/mol	Joback Method
hf	-318.27	kJ/mol	Joback Method
hfus	16.74	kJ/mol	Joback Method
hvap	58.70	kJ/mol	Joback Method
log10ws	-1.38		Crippen Method
logp	0.424		Crippen Method
mcvol	104.600	ml/mol	McGowan Method
pc	4031.24	kPa	Joback Method
ripol	2000.00		NIST Webbook
tb	554.59	K	Joback Method
tc	758.11	K	Joback Method
tf	352.96	K	Joback Method
vc	0.406	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.85	J/molxK	554.59	Joback Method
cpg	266.36	J/molxK	588.51	Joback Method
cpg	275.26	J/molxK	622.43	Joback Method
cpg	283.59	J/molxK	656.35	Joback Method
cpg	291.38	J/molxK	690.27	Joback Method
cpg	298.67	J/molxK	724.19	Joback Method
cpg	305.49	J/molxK	758.11	Joback Method

# Sources

<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>
<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=R307981&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R307981&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>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

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