

# Butyric acid, 2-hydrazino-3-methyl-, d,l-alpha-

<b>Inchi:</b>	InChI=1S/C5H12N2O2/c1-3(2)4(7-6)5(8)9/h3-4,7H,6H2,1-2H3,(H,8,9)
<b>InchiKey:</b>	PMQMQUALVIXUTQ-UHFFFAOYSA-N
<b>Formula:</b>	C5H12N2O2
<b>SMILES:</b>	CC(C)C(NN)C(=O)O
<b>Mol. weight [g/mol]:</b>	132.16

## Physical Properties

Property code	Value	Unit	Source
gf	-123.56	kJ/mol	Joback Method
hf	-334.64	kJ/mol	Joback Method
hfus	17.64	kJ/mol	Joback Method
hvap	66.45	kJ/mol	Joback Method
log10ws	-0.50		Crippen Method
logp	-0.441		Crippen Method
mcvol	108.710	ml/mol	McGowan Method
pc	4710.65	kPa	Joback Method
tb	581.67	K	Joback Method
tc	774.04	K	Joback Method
tf	362.78	K	Joback Method
vc	0.393	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	274.58	J/molxK	581.67	Joback Method
cpg	283.59	J/molxK	613.73	Joback Method
cpg	292.13	J/molxK	645.79	Joback Method
cpg	300.20	J/molxK	677.85	Joback Method
cpg	307.83	J/molxK	709.92	Joback Method
cpg	315.03	J/molxK	741.98	Joback Method
cpg	321.81	J/molxK	774.04	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=B6006890&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6006890&amp;Units=SI</a>
<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>

# 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>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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