

# (+/-)-3-hydroxybutyric acid, acetate

<b>Inchi:</b>	InChI=1S/C6H10O4/c1-4(3-6(8)9)10-5(2)7/h4H,3H2,1-2H3,(H,8,9)
<b>InchiKey:</b>	RVBYGWWJLVDBHM-UHFFFAOYSA-N
<b>Formula:</b>	C6H10O4
<b>SMILES:</b>	CC(=O)OC(C)CC(=O)O
<b>Mol. weight [g/mol]:</b>	146.14

## Physical Properties

Property code	Value	Unit	Source
gf	-502.46	kJ/mol	Joback Method
hf	-682.06	kJ/mol	Joback Method
hfus	16.25	kJ/mol	Joback Method
hvap	61.14	kJ/mol	Joback Method
log10ws	-0.41		Crippen Method
logp	0.413		Crippen Method
mcvol	110.280	ml/mol	McGowan Method
pc	3980.54	kPa	Joback Method
rinpol	1200.00		NIST Webbook
rinpol	1200.00		NIST Webbook
tb	558.58	K	Joback Method
tc	741.56	K	Joback Method
tf	325.29	K	Joback Method
vc	0.414	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	258.32	J/molxK	558.58	Joback Method
cpg	296.74	J/molxK	711.06	Joback Method
cpg	289.78	J/molxK	680.57	Joback Method
cpg	282.46	J/molxK	650.07	Joback Method
cpg	274.77	J/molxK	619.57	Joback Method
cpg	266.72	J/molxK	589.08	Joback Method
cpg	303.34	J/molxK	741.56	Joback Method
dvisc	0.0001238	Paxs	558.58	Joback Method

dvisc	0.0001912	Paxs	519.70	Joback Method
dvisc	0.0003170	Paxs	480.82	Joback Method
dvisc	0.0005742	Paxs	441.93	Joback Method
dvisc	0.0011665	Paxs	403.05	Joback Method
dvisc	0.0027572	Paxs	364.17	Joback Method
dvisc	0.0080049	Paxs	325.29	Joback Method

## Sources

<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=U374308&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374308&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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

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