

# 2-Hydroxyethyl butyrate

<b>Inchi:</b>	InChI=1S/C6H12O3/c1-2-3-6(8)9-5-4-7/h7H,2-5H2,1H3
<b>InchiKey:</b>	GI0CILWWMFZESP-UHFFFAOYSA-N
<b>Formula:</b>	C6H12O3
<b>SMILES:</b>	CCCC(=O)OCCO
<b>Mol. weight [g/mol]:</b>	132.16
<b>CAS:</b>	4219-46-9

## Physical Properties

Property code	Value	Unit	Source
gf	-371.10	kJ/mol	Joback Method
hf	-564.20	kJ/mol	Joback Method
hfus	18.17	kJ/mol	Joback Method
hvap	54.78	kJ/mol	Joback Method
log10ws	-0.46		Crippen Method
logp	0.322		Crippen Method
mcvol	108.710	ml/mol	McGowan Method
pc	3646.53	kPa	Joback Method
rinpol	1000.00		NIST Webbook
tb	505.15	K	Joback Method
tc	676.09	K	Joback Method
tf	290.36	K	Joback Method
vc	0.414	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	245.47	J/molxK	505.15	Joback Method
cpg	286.56	J/molxK	647.60	Joback Method
cpg	278.97	J/molxK	619.11	Joback Method
cpg	271.06	J/molxK	590.62	Joback Method
cpg	262.85	J/molxK	562.13	Joback Method
cpg	254.32	J/molxK	533.64	Joback Method
cpg	293.84	J/molxK	676.09	Joback Method
dvisc	0.0001569	Paxs	505.15	Joback Method

dvisc	0.0002454	Paxs	469.35	Joback Method
dvisc	0.0004134	Paxs	433.55	Joback Method
dvisc	0.0007647	Paxs	397.75	Joback Method
dvisc	0.0015977	Paxs	361.96	Joback Method
dvisc	0.0039241	Paxs	326.16	Joback Method
dvisc	0.0120283	Paxs	290.36	Joback Method

## Sources

<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=C4219469&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4219469&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cp<sub>g</sub>:</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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