

# 4-(2-Hydroxyethyl)-2,2-dimethyl-1,3-dioxolane

<b>Inchi:</b>	InChI=1S/C7H14O3/c1-7(2)9-5-6(10-7)3-4-8/h6,8H,3-5H2,1-2H3
<b>InchiKey:</b>	YYEZYENJAMOWHW-UHFFFAOYSA-N
<b>Formula:</b>	C7H14O3
<b>SMILES:</b>	CC1(C)OCC(CCO)O1
<b>Mol. weight [g/mol]:</b>	146.18
<b>CAS:</b>	5754-34-7

## Physical Properties

Property code	Value	Unit	Source
gf	-277.65	kJ/mol	Joback Method
hf	-548.66	kJ/mol	Joback Method
hfus	22.64	kJ/mol	Joback Method
hvap	55.67	kJ/mol	Joback Method
log10ws	-0.80		Crippen Method
logp	0.520		Crippen Method
mcvol	116.240	ml/mol	McGowan Method
pc	3791.65	kPa	Joback Method
tb	516.49	K	Joback Method
tc	708.54	K	Joback Method
tf	313.17	K	Joback Method
vc	0.426	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	291.22	J/molxK	516.49	Joback Method
cpg	303.55	J/molxK	548.50	Joback Method
cpg	315.16	J/molxK	580.51	Joback Method
cpg	326.13	J/molxK	612.51	Joback Method
cpg	336.53	J/molxK	644.52	Joback Method
cpg	346.44	J/molxK	676.53	Joback Method
cpg	355.93	J/molxK	708.54	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=C5754347&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5754347&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>hvac:</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>mccol:</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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