

# 1-acetoxy-2-propionyloxyethane

<b>Inchi:</b>	InChI=1S/C7H12O4/c1-3-7(9)11-5-4-10-6(2)8/h3-5H2,1-2H3
<b>InchiKey:</b>	MRWOMAPJRAVONW-UHFFFAOYSA-N
<b>Formula:</b>	C7H12O4
<b>SMILES:</b>	CCC(=O)OCCOC(C)=O
<b>Mol. weight [g/mol]:</b>	160.17
<b>CAS:</b>	98962-89-1

## Physical Properties

Property code	Value	Unit	Source
gf	-459.78	kJ/mol	Joback Method
hf	-677.41	kJ/mol	Joback Method
hfus	19.46	kJ/mol	Joback Method
hvap	49.49	kJ/mol	Joback Method
log10ws	-0.48		Crippen Method
logp	0.503		Crippen Method
mcvol	124.370	ml/mol	McGowan Method
pc	3093.29	kPa	Joback Method
ripol	1486.00		NIST Webbook
tb	512.14	K	Joback Method
tc	697.87	K	Joback Method
tf	312.97	K	Joback Method
vc	0.475	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.30	J/molxK	512.14	Joback Method
cpg	288.74	J/molxK	543.09	Joback Method
cpg	298.81	J/molxK	574.05	Joback Method
cpg	308.51	J/molxK	605.00	Joback Method
cpg	317.83	J/molxK	635.96	Joback Method
cpg	326.76	J/molxK	666.91	Joback Method
cpg	335.29	J/molxK	697.87	Joback Method
dvisc	0.0020676	Paxs	312.97	Joback Method

dvisc	0.0012258	Paxs	346.17	Joback Method
dvisc	0.0007964	Paxs	379.36	Joback Method
dvisc	0.0005546	Paxs	412.56	Joback Method
dvisc	0.0004076	Paxs	445.75	Joback Method
dvisc	0.0003126	Paxs	478.94	Joback Method
dvisc	0.0002482	Paxs	512.14	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=C98962891&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C98962891&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>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

Latest version available from:

<https://www.cheméo.com/cid/81-150-5/1-acetoxy-2-propionyloxyethane.pdf>

Generated by Cheméo on 2024-04-27 03:10:32.273157764 +0000 UTC m=+16476681.193735079.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.