

# 2-Ethyl-2,3-dimethyl-oxirane (E)

<b>Inchi:</b>	InChI=1S/C6H12O/c1-4-6(3)5(2)7-6/h5H,4H2,1-3H3
<b>InchiKey:</b>	ZISUZIXPPXXNPC-UHFFFAOYSA-N
<b>Formula:</b>	C6H12O
<b>SMILES:</b>	CCC1(C)OC1C
<b>Mol. weight [g/mol]:</b>	100.16

## Physical Properties

Property code	Value	Unit	Source
gf	-38.93	kJ/mol	Joback Method
hf	-231.47	kJ/mol	Joback Method
hfus	12.18	kJ/mol	Joback Method
hvap	31.91	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	1.574		Crippen Method
mcvol	90.410	ml/mol	McGowan Method
pc	3624.61	kPa	Joback Method
rinpol	720.00		NIST Webbook
tb	365.94	K	Joback Method
tc	553.87	K	Joback Method
tf	221.55	K	Joback Method
vc	0.346	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	170.26	J/mol×K	365.94	Joback Method
cpg	183.37	J/mol×K	397.26	Joback Method
cpg	195.52	J/mol×K	428.58	Joback Method
cpg	206.80	J/mol×K	459.90	Joback Method
cpg	217.29	J/mol×K	491.22	Joback Method
cpg	227.05	J/mol×K	522.54	Joback Method
cpg	236.18	J/mol×K	553.87	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>
<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=R405728&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R405728&amp;Units=SI</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>mccvol:</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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