

# [4,4,6,6,6-2H5]Mevalonic Acid Lactone

<b>Inchi:</b>	InChI=1S/C6H10O3/c1-6(8)2-3-9-5(7)4-6/h8H,2-4H2,1H3/t6-/m1/s1/i1D3,2D2
<b>InchiKey:</b>	JYVXNLLUYHCIIH-WBKASDIDSA-N
<b>Formula:</b>	C6H5D5O3
<b>SMILES:</b>	CC1(O)CCOC(=O)C1
<b>Mol. weight [g/mol]:</b>	135.17

## Physical Properties

Property code	Value	Unit	Source
gf	-326.93	kJ/mol	Joback Method
hf	-519.54	kJ/mol	Joback Method
hfus	8.41	kJ/mol	Joback Method
hvap	53.66	kJ/mol	Joback Method
log10ws	-0.47		Crippen Method
logp	0.074		Crippen Method
mvol	97.850	ml/mol	McGowan Method
pc	4917.69	kPa	Joback Method
rinpol	1385.00		NIST Webbook
rinpol	1385.00		NIST Webbook
tb	543.42	K	Joback Method
tc	761.96	K	Joback Method
tf	344.27	K	Joback Method
vc	0.349	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.76	J/mol×K	543.42	Joback Method
cpg	252.38	J/mol×K	579.84	Joback Method
cpg	263.36	J/mol×K	616.27	Joback Method
cpg	273.77	J/mol×K	652.69	Joback Method
cpg	283.68	J/mol×K	689.11	Joback Method
cpg	293.16	J/mol×K	725.54	Joback Method
cpg	302.30	J/mol×K	761.96	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=R412429&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R412429&amp;Units=SI</a>
<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>

# 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>hvp:</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>rinp:</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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