

# L-Menthyl-D-lactate

<b>Inchi:</b>	InChI=1S/C13H24O3/c1-8(2)11-6-5-9(3)7-12(11)16-13(15)10(4)14/h8-12,14H,5-7H2,1-4H
<b>InchiKey:</b>	UJNOLBSYLSYIBM-SGUBAKSOSA-N
<b>Formula:</b>	C13H24O3
<b>SMILES:</b>	CC1CCC(C(C)C)C(OC(=O)C(C)O)C1
<b>Mol. weight [g/mol]:</b>	228.33

## Physical Properties

Property code	Value	Unit	Source
gf	-308.01	kJ/mol	Joback Method
hf	-705.60	kJ/mol	Joback Method
hfus	23.23	kJ/mol	Joback Method
hvap	69.40	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.371		Crippen Method
mcvol	196.480	ml/mol	McGowan Method
pc	2117.78	kPa	Joback Method
rinpola	1469.00		NIST Webbook
ripola	2004.00		NIST Webbook
tb	674.64	K	Joback Method
tc	867.50	K	Joback Method
tf	338.15	K	Joback Method
vc	0.726	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	581.51	J/molxK	674.64	Joback Method
cpg	659.85	J/molxK	835.36	Joback Method
cpg	646.10	J/molxK	803.21	Joback Method
cpg	631.40	J/molxK	771.07	Joback Method
cpg	615.74	J/molxK	738.93	Joback Method
cpg	599.12	J/molxK	706.78	Joback Method
cpg	672.66	J/molxK	867.50	Joback Method
dvisc	0.0000568	Paxs	674.64	Joback Method

dvisc	0.0000888	Paxs	618.56	Joback Method
dvisc	0.0001519	Paxs	562.48	Joback Method
dvisc	0.0002924	Paxs	506.39	Joback Method
dvisc	0.0006627	Paxs	450.31	Joback Method
dvisc	0.0018956	Paxs	394.23	Joback Method
dvisc	0.0076841	Paxs	338.15	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=R422743&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R422743&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>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>rinpol:</b>	Non-polar retention indices
<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

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