

# Melissic acid

<b>Inchi:</b>	InChI=1S/C31H62O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24
<b>InchiKey:</b>	ONLMUMPTRGEPCH-UHFFFAOYSA-N
<b>Formula:</b>	C31H62O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(=O)O
<b>Mol. weight [g/mol]:</b>	466.82
<b>CAS:</b>	38232-01-8

## Physical Properties

Property code	Value	Unit	Source
gf	-55.60	kJ/mol	Joback Method
hf	-947.98	kJ/mol	Joback Method
hfus	81.73	kJ/mol	Joback Method
hvap	108.02	kJ/mol	Joback Method
log10ws	-11.90		Crippen Method
logp	11.404		Crippen Method
mcvol	455.090	ml/mol	McGowan Method
pc	612.99	kPa	Joback Method
tb	1054.73	K	Joback Method
tc	1352.18	K	Joback Method
tf	549.88	K	Joback Method
vc	1.796	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1661.91	J/molxK	1054.73	Joback Method
cpg	1691.32	J/molxK	1104.31	Joback Method
cpg	1718.35	J/molxK	1153.88	Joback Method
cpg	1743.24	J/molxK	1203.46	Joback Method
cpg	1766.27	J/molxK	1253.03	Joback Method
cpg	1787.69	J/molxK	1302.61	Joback Method
cpg	1807.76	J/molxK	1352.18	Joback Method
dvisc	0.0002024	Paxs	549.88	Joback Method
dvisc	0.0000578	Paxs	634.02	Joback Method

dvisc	0.0000221	Paxs	718.16	Joback Method
dvisc	0.0000104	Paxs	802.30	Joback Method
dvisc	0.0000056	Paxs	886.45	Joback Method
dvisc	0.0000034	Paxs	970.59	Joback Method
dvisc	0.0000022	Paxs	1054.73	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=C38232018&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C38232018&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>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>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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