

# Methyl 2,3-di-epi-cucurbate

<b>Inchi:</b>	InChI=1S/C13H22O3/c1-3-4-5-6-11-10(7-8-12(11)14)9-13(15)16-2/h4-5,10-12,14H,3,6-9
<b>InchiKey:</b>	OOYCGMQJIWHWHA-IUOCUSHJSA-N
<b>Formula:</b>	C13H22O3
<b>SMILES:</b>	CCC=CCC1C(O)CCC1CC(=O)OC
<b>Mol. weight [g/mol]:</b>	226.31

## Physical Properties

Property code	Value	Unit	Source
gf	-210.81	kJ/mol	Joback Method
hf	-571.66	kJ/mol	Joback Method
hfus	32.58	kJ/mol	Joback Method
hvap	69.96	kJ/mol	Joback Method
log10ws	-2.77		Crippen Method
logp	2.293		Crippen Method
mcvol	192.180	ml/mol	McGowan Method
pc	2139.38	kPa	Joback Method
rinsol	1636.00		NIST Webbook
tb	675.41	K	Joback Method
tc	863.59	K	Joback Method
tf	366.59	K	Joback Method
vc	0.726	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	555.89	J/molxK	675.41	Joback Method
cpg	571.77	J/molxK	706.77	Joback Method
cpg	586.80	J/molxK	738.14	Joback Method
cpg	601.00	J/molxK	769.50	Joback Method
cpg	614.40	J/molxK	800.86	Joback Method
cpg	627.02	J/molxK	832.22	Joback Method
cpg	638.89	J/molxK	863.59	Joback Method
dvisc	0.0033029	Paxs	366.59	Joback Method
dvisc	0.0012003	Paxs	418.06	Joback Method

dvisc	0.0005445	Paxs	469.53	Joback Method
dvisc	0.0002888	Paxs	521.00	Joback Method
dvisc	0.0001717	Paxs	572.47	Joback Method
dvisc	0.0001112	Paxs	623.94	Joback Method
dvisc	0.0000769	Paxs	675.41	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=R233820&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R233820&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.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>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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