

# Glutaric acid, 1-cyclopentylethyl 2,2-dichloroethyl ester

<b>Inchi:</b>	InChI=1S/C14H22Cl2O4/c1-10(11-5-2-3-6-11)20-14(18)8-4-7-13(17)19-9-12(15)16/h10-
<b>InchiKey:</b>	SAQLFYZZSWNROD-UHFFFAOYSA-N
<b>Formula:</b>	C14H22Cl2O4
<b>SMILES:</b>	CC(OC(=O)CCCC(=O)OCC(Cl)Cl)C1CCCC1
<b>Mol. weight [g/mol]:</b>	325.23

## Physical Properties

Property code	Value	Unit	Source
gf	-393.03	kJ/mol	Joback Method
hf	-803.45	kJ/mol	Joback Method
hfus	32.87	kJ/mol	Joback Method
hvap	73.32	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.626		Crippen Method
mvol	236.620	ml/mol	McGowan Method
pc	1813.86	kPa	Joback Method
rinpol	2068.00		NIST Webbook
rinpol	2068.00		NIST Webbook
tb	761.56	K	Joback Method
tc	969.64	K	Joback Method
tf	432.60	K	Joback Method
vc	0.894	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	672.81	J/mol×K	761.56	Joback Method
cpg	688.22	J/mol×K	796.24	Joback Method
cpg	702.56	J/mol×K	830.92	Joback Method
cpg	715.82	J/mol×K	865.60	Joback Method
cpg	728.04	J/mol×K	900.28	Joback Method
cpg	739.24	J/mol×K	934.96	Joback Method
cpg	749.43	J/mol×K	969.64	Joback Method
dvisc	0.0017104	Paxs	432.60	Joback Method

dvisc	0.0008489	Paxs	487.43	Joback Method
dvisc	0.0004854	Paxs	542.25	Joback Method
dvisc	0.0003076	Paxs	597.08	Joback Method
dvisc	0.0002104	Paxs	651.91	Joback Method
dvisc	0.0001527	Paxs	706.73	Joback Method
dvisc	0.0001161	Paxs	761.56	Joback Method

## Sources

<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>
<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=U405461&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405461&amp;Units=SI</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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