

# Glutaric acid, 2,2-dichloroethyl 2-chloro-5-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C14H15Cl3O4/c1-9-5-6-10(15)11(7-9)21-14(19)4-2-3-13(18)20-8-12(16)17/h5-
<b>InchiKey:</b>	OU DHCKOTGASFB B-UHFFFAOYSA-N
<b>Formula:</b>	C14H15Cl3O4
<b>SMILES:</b>	Cc1ccc(Cl)c(OC(=O)CCCC(=O)OCC(Cl)Cl)c1
<b>Mol. weight [g/mol]:</b>	353.62

## Physical Properties

Property code	Value	Unit	Source
gf	-345.92	kJ/mol	Joback Method
hf	-660.80	kJ/mol	Joback Method
hfus	39.92	kJ/mol	Joback Method
hvap	81.44	kJ/mol	Joback Method
log10ws	-4.81		Crippen Method
logp	4.071		Crippen Method
mvol	235.960	ml/mol	McGowan Method
pc	1937.24	kPa	Joback Method
rinpol	2403.00		NIST Webbook
rinpol	2403.00		NIST Webbook
tb	820.79	K	Joback Method
tc	1040.75	K	Joback Method
tf	518.08	K	Joback Method
vc	0.900	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	611.96	J/molxK	820.79	Joback Method
cpg	623.13	J/molxK	857.45	Joback Method
cpg	633.33	J/molxK	894.11	Joback Method
cpg	642.56	J/molxK	930.77	Joback Method
cpg	650.83	J/molxK	967.43	Joback Method
cpg	658.15	J/molxK	1004.09	Joback Method
cpg	664.54	J/molxK	1040.75	Joback Method
dvisc	0.0005822	Paxs	518.08	Joback Method

dvisc	0.0003575	Paxs	568.53	Joback Method
dvisc	0.0002376	Paxs	618.98	Joback Method
dvisc	0.0001680	Paxs	669.43	Joback Method
dvisc	0.0001247	Paxs	719.89	Joback Method
dvisc	0.0000962	Paxs	770.34	Joback Method
dvisc	0.0000767	Paxs	820.79	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=U393420&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393420&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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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