

# Glutaric acid, 2,2-dichloroethyl 2,4,4-trimethylpentyl ester

Inchi:	InChI=1S/C15H26Cl2O4/c1-11(8-15(2,3)4)9-20-13(18)6-5-7-14(19)21-10-12(16)17/h11-14
InchiKey:	KDNOGOZBFVVCVAO-UHFFFAOYSA-N
Formula:	C15H26Cl2O4
SMILES:	CC(COC(=O)CCCC(=O)OCC(Cl)Cl)CC(C)(C)C
Mol. weight [g/mol]:	341.27

## Physical Properties

Property code	Value	Unit	Source
gf	-418.32	kJ/mol	Joback Method
hf	-893.32	kJ/mol	Joback Method
hfus	34.11	kJ/mol	Joback Method
hvap	73.99	kJ/mol	Joback Method
log10ws	-4.26		Crippen Method
logp	4.119		Crippen Method
mvol	261.570	ml/mol	McGowan Method
pc	1473.62	kPa	Joback Method
rinpol	2033.00		NIST Webbook
rinpol	2033.00		NIST Webbook
tb	765.93	K	Joback Method
tc	961.65	K	Joback Method
tf	435.39	K	Joback Method
vc	0.999	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	740.15	J/molxK	765.93	Joback Method
cpg	805.58	J/molxK	929.03	Joback Method
cpg	794.28	J/molxK	896.41	Joback Method
cpg	782.11	J/molxK	863.79	Joback Method
cpg	769.05	J/molxK	831.17	Joback Method
cpg	755.07	J/molxK	798.55	Joback Method
cpg	816.05	J/molxK	961.65	Joback Method
dvisc	0.0000562	Paxs	765.93	Joback Method

dvisc	0.0000770	Paxs	710.84	Joback Method
dvisc	0.0001113	Paxs	655.75	Joback Method
dvisc	0.0001722	Paxs	600.66	Joback Method
dvisc	0.0002908	Paxs	545.57	Joback Method
dvisc	0.0005526	Paxs	490.48	Joback Method
dvisc	0.0012353	Paxs	435.39	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391529&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391529&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>
<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>

## 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>h<sub>vap</sub>:</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>log<sub>p</sub>:</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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