

# Glutaric acid, heptyl 2,2,2-trichloroethyl ester

<b>Inchi:</b>	InChI=1S/C14H23Cl3O4/c1-2-3-4-5-6-10-20-12(18)8-7-9-13(19)21-11-14(15,16)17/h2-11
<b>InchiKey:</b>	OSNHVVNUMDFENK-UHFFFAOYSA-N
<b>Formula:</b>	C14H23Cl3O4
<b>SMILES:</b>	CCCCCCCOC(=O)CCCC(=O)OCC(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	361.69

## Physical Properties

Property code	Value	Unit	Source
gf	-433.79	kJ/mol	Joback Method
hf	-877.86	kJ/mol	Joback Method
hfus	42.77	kJ/mol	Joback Method
hvap	76.93	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.584		Crippen Method
mvol	259.720	ml/mol	McGowan Method
pc	1523.50	kPa	Joback Method
rinpol	2213.00		NIST Webbook
rinpol	2213.00		NIST Webbook
tb	781.36	K	Joback Method
tc	977.33	K	Joback Method
tf	484.04	K	Joback Method
vc	1.004	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	710.06	J/molxK	781.36	Joback Method
cpg	723.27	J/molxK	814.02	Joback Method
cpg	735.62	J/molxK	846.68	Joback Method
cpg	747.14	J/molxK	879.34	Joback Method
cpg	757.86	J/molxK	912.00	Joback Method
cpg	767.79	J/molxK	944.66	Joback Method
cpg	776.97	J/molxK	977.33	Joback Method
dvisc	0.0007602	Paxs	484.04	Joback Method

dvisc	0.0004178	Paxs	533.59	Joback Method
dvisc	0.0002542	Paxs	583.15	Joback Method
dvisc	0.0001672	Paxs	632.70	Joback Method
dvisc	0.0001169	Paxs	682.25	Joback Method
dvisc	0.0000857	Paxs	731.81	Joback Method
dvisc	0.0000654	Paxs	781.36	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=U359348&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359348&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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