

# Glutaric acid, 2,2-dichloroethyl oct-3-en-2-yl ester

Inchi:	InChI=1S/C15H24Cl2O4/c1-3-4-5-6-8-12(2)21-15(19)10-7-9-14(18)20-11-13(16)17/h6,8,
InchiKey:	DYGQCBVSVRLNLJ-SOFGYWHQSA-N
Formula:	C15H24Cl2O4
SMILES:	CCCCC=CC(C)OC(=O)CCCC(=O)OCC(Cl)Cl
Mol. weight [g/mol]:	339.25

## Physical Properties

Property code	Value	Unit	Source
gf	-340.94	kJ/mol	Joback Method
hf	-767.35	kJ/mol	Joback Method
hfus	41.73	kJ/mol	Joback Method
hvap	75.25	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.182		Crippen Method
mcvol	257.270	ml/mol	McGowan Method
pc	1511.67	kPa	Joback Method
rinpol	2080.00		NIST Webbook
rinpol	2080.00		NIST Webbook
tb	773.32	K	Joback Method
tc	967.65	K	Joback Method
tf	427.89	K	Joback Method
vc	0.990	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	713.35	J/molxK	773.32	Joback Method
cpg	727.54	J/molxK	805.71	Joback Method
cpg	740.87	J/molxK	838.10	Joback Method
cpg	753.36	J/molxK	870.49	Joback Method
cpg	765.02	J/molxK	902.88	Joback Method
cpg	775.88	J/molxK	935.26	Joback Method
cpg	785.96	J/molxK	967.65	Joback Method
dvisc	0.0011750	Paxs	427.89	Joback Method

dvisc	0.0005327	Paxs	485.46	Joback Method
dvisc	0.0002857	Paxs	543.03	Joback Method
dvisc	0.0001726	Paxs	600.61	Joback Method
dvisc	0.0001139	Paxs	658.18	Joback Method
dvisc	0.0000804	Paxs	715.75	Joback Method
dvisc	0.0000597	Paxs	773.32	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393988&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393988&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>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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