

# Glutaric acid, hexa-1,5-dien-3-yl 2,2-dichloroethyl ester

<b>Inchi:</b>	InChI=1S/C13H18Cl2O4/c1-3-6-10(4-2)19-13(17)8-5-7-12(16)18-9-11(14)15/h3-4,10-11H
<b>InchiKey:</b>	CMHBCXVWJBSSJM-UHFFFAOYSA-N
<b>Formula:</b>	C13H18Cl2O4
<b>SMILES:</b>	C=CCC(C=C)OC(=O)CCCC(=O)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	309.19

## Physical Properties

Property code	Value	Unit	Source
gf	-262.32	kJ/mol	Joback Method
hf	-592.43	kJ/mol	Joback Method
hfus	33.79	kJ/mol	Joback Method
hvap	69.50	kJ/mol	Joback Method
log10ws	-3.72		Crippen Method
logp	3.177		Crippen Method
mcvol	224.790	ml/mol	McGowan Method
pc	1813.86	kPa	Joback Method
rinpol	1858.00		NIST Webbook
rinpol	1858.00		NIST Webbook
tb	716.76	K	Joback Method
tc	912.19	K	Joback Method
tf	406.91	K	Joback Method
vc	0.860	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	579.24	J/molxK	716.76	Joback Method
cpg	592.04	J/molxK	749.33	Joback Method
cpg	604.06	J/molxK	781.90	Joback Method
cpg	615.32	J/molxK	814.47	Joback Method
cpg	625.83	J/molxK	847.04	Joback Method
cpg	635.61	J/molxK	879.62	Joback Method
cpg	644.68	J/molxK	912.19	Joback Method
dvisc	0.0015615	Paxs	406.91	Joback Method

dvisc	0.0007691	Paxs	458.55	Joback Method
dvisc	0.0004372	Paxs	510.19	Joback Method
dvisc	0.0002757	Paxs	561.84	Joback Method
dvisc	0.0001879	Paxs	613.48	Joback Method
dvisc	0.0001359	Paxs	665.12	Joback Method
dvisc	0.0001030	Paxs	716.76	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=U405277&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405277&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>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

Latest version available from:

<https://www.chemeo.com/cid/125-134-4/Glutaric-acid-hexa-1-5-dien-3-yl-2-2-dichloroethyl-ester.pdf>

Generated by Cheméo on 2024-04-28 09:05:09.827720563 +0000 UTC m=+16584358.748297873.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.