

# Glutaric acid, 2,2-dichloroethyl 2,4-dichloro-1-naphthyl ester

**Inchi:** InChI=1S/C17H14Cl4O4/c18-12-8-13(19)17(11-5-2-1-4-10(11)12)25-16(23)7-3-6-15(22)2  
**InchiKey:** WBUVTGHGDXFREF-UHFFFAOYSA-N  
**Formula:** C17H14Cl4O4  
**SMILES:** O=C(CCCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12)OCC(Cl)Cl  
**Mol. weight [g/mol]:** 424.10

## Physical Properties

Property code	Value	Unit	Source
gf	-235.57	kJ/mol	Joback Method
hf	-558.86	kJ/mol	Joback Method
hfus	48.52	kJ/mol	Joback Method
hvap	94.80	kJ/mol	Joback Method
log10ws	-6.83		Crippen Method
logp	5.569		Crippen Method
mcvol	271.010	ml/mol	McGowan Method
pc	1784.86	kPa	Joback Method
rinpol	3060.00		NIST Webbook
rinpol	3060.00		NIST Webbook
tb	950.82	K	Joback Method
tc	1187.29	K	Joback Method
tf	627.03	K	Joback Method
vc	1.040	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	715.31	J/molxK	950.82	Joback Method
cpg	724.48	J/molxK	990.23	Joback Method
cpg	732.70	J/molxK	1029.64	Joback Method
cpg	740.02	J/molxK	1069.06	Joback Method
cpg	746.49	J/molxK	1108.47	Joback Method
cpg	752.16	J/molxK	1147.88	Joback Method
cpg	757.08	J/molxK	1187.29	Joback Method
dvisc	0.0004396	Paxs	627.03	Joback Method

dvisc	0.0003027	Paxs	681.00	Joback Method
dvisc	0.0002201	Paxs	734.96	Joback Method
dvisc	0.0001672	Paxs	788.92	Joback Method
dvisc	0.0001316	Paxs	842.89	Joback Method
dvisc	0.0001066	Paxs	896.86	Joback Method
dvisc	0.0000884	Paxs	950.82	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=U392020&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392020&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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