

# Glutaric acid, 2,2-dichloroethyl dodecyl ester

**Inchi:** InChI=1S/C19H34Cl2O4/c1-2-3-4-5-6-7-8-9-10-11-15-24-18(22)13-12-14-19(23)25-16-17  
**InchiKey:** GOGJALPUMWJPSC-UHFFFAOYSA-N  
**Formula:** C19H34Cl2O4  
**SMILES:** CCCCCCCCCCOC(=O)CCCC(=O)OCC(Cl)Cl  
**Mol. weight [g/mol]:** 397.38

## Physical Properties

Property code	Value	Unit	Source
gf	-385.04	kJ/mol	Joback Method
hf	-961.85	kJ/mol	Joback Method
hfus	55.41	kJ/mol	Joback Method
hvap	84.58	kJ/mol	Joback Method
log10ws	-6.41		Crippen Method
logp	5.968		Crippen Method
mcvol	317.930	ml/mol	McGowan Method
pc	1099.35	kPa	Joback Method
rinpol	2611.00		NIST Webbook
rinpol	2611.00		NIST Webbook
tb	861.12	K	Joback Method
tc	1056.11	K	Joback Method
tf	493.05	K	Joback Method
vc	1.240	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	970.57	J/mol×K	861.12	Joback Method
cpg	986.62	J/mol×K	893.62	Joback Method
cpg	1001.58	J/mol×K	926.12	Joback Method
cpg	1015.48	J/mol×K	958.61	Joback Method
cpg	1028.34	J/mol×K	991.11	Joback Method
cpg	1040.18	J/mol×K	1023.61	Joback Method
cpg	1051.01	J/mol×K	1056.11	Joback Method
dvisc	0.0006685	Paxs	493.05	Joback Method

dvisc	0.0003248	Paxs	554.39	Joback Method
dvisc	0.0001822	Paxs	615.74	Joback Method
dvisc	0.0001135	Paxs	677.09	Joback Method
dvisc	0.0000765	Paxs	738.43	Joback Method
dvisc	0.0000548	Paxs	799.77	Joback Method
dvisc	0.0000411	Paxs	861.12	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=U391597&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391597&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

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