

# Glutaric acid, 2,2-dichloroethyl 10-chlorodecyl ester

Inchi:	InChI=1S/C17H29Cl3O4/c18-12-7-5-3-1-2-4-6-8-13-23-16(21)10-9-11-17(22)24-14-15(19)
InchiKey:	FVUUDTDVOMREHD-UHFFFAOYSA-N
Formula:	C17H29Cl3O4
SMILES:	O=C(CCCC(=O)OCC(Cl)Cl)OCCCCCCCCCCCCI
Mol. weight [g/mol]:	403.77

## Physical Properties

Property code	Value	Unit	Source
gf	-413.81	kJ/mol	Joback Method
hf	-936.31	kJ/mol	Joback Method
hfus	54.43	kJ/mol	Joback Method
hvap	84.52	kJ/mol	Joback Method
log10ws	-5.73		Crippen Method
logp	5.406		Crippen Method
mcvol	301.990	ml/mol	McGowan Method
pc	1221.70	kPa	Joback Method
rinpol	2739.00		NIST Webbook
rinpol	2739.00		NIST Webbook
tb	852.79	K	Joback Method
tc	1048.74	K	Joback Method
tf	500.43	K	Joback Method
vc	1.177	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	879.85	J/molxK	852.79	Joback Method
cpg	894.20	J/molxK	885.45	Joback Method
cpg	907.55	J/molxK	918.11	Joback Method
cpg	919.92	J/molxK	950.76	Joback Method
cpg	931.33	J/molxK	983.42	Joback Method
cpg	941.80	J/molxK	1016.08	Joback Method
cpg	951.36	J/molxK	1048.74	Joback Method
dvisc	0.0006617	Paxs	500.43	Joback Method

dvisc	0.0003381	Paxs	559.16	Joback Method
dvisc	0.0001963	Paxs	617.88	Joback Method
dvisc	0.0001252	Paxs	676.61	Joback Method
dvisc	0.0000858	Paxs	735.34	Joback Method
dvisc	0.0000622	Paxs	794.06	Joback Method
dvisc	0.0000471	Paxs	852.79	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U392457&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392457&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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