

# Glutaric acid, 2-chloropropyl decyl ester

<b>Inchi:</b>	InChI=1S/C18H33ClO4/c1-3-4-5-6-7-8-9-10-14-22-17(20)12-11-13-18(21)23-15-16(2)19
<b>InchiKey:</b>	VNMBBFQJLLBYHI-UHFFFAOYSA-N
<b>Formula:</b>	C18H33ClO4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)OCC(C)Cl
<b>Mol. weight [g/mol]:</b>	348.90

## Physical Properties

Property code	Value	Unit	Source
gf	-381.53	kJ/mol	Joback Method
hf	-925.47	kJ/mol	Joback Method
hfus	48.62	kJ/mol	Joback Method
hvap	77.97	kJ/mol	Joback Method
log10ws	-5.35		Crippen Method
logp	5.011		Crippen Method
mvol	291.600	ml/mol	McGowan Method
pc	1203.12	kPa	Joback Method
rinpol	2397.00		NIST Webbook
tb	800.81	K	Joback Method
tc	986.70	K	Joback Method
tf	451.86	K	Joback Method
vc	1.135	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	881.59	J/mol×K	800.81	Joback Method
cpg	955.10	J/mol×K	955.71	Joback Method
cpg	942.30	J/mol×K	924.73	Joback Method
cpg	928.56	J/mol×K	893.75	Joback Method
cpg	913.87	J/mol×K	862.77	Joback Method
cpg	898.22	J/mol×K	831.79	Joback Method
cpg	966.99	J/mol×K	986.70	Joback Method
dvisc	0.0000562	Paxs	800.81	Joback Method
dvisc	0.0000750	Paxs	742.65	Joback Method

dvisc	0.0001052	Paxs	684.49	Joback Method
dvisc	0.0001569	Paxs	626.34	Joback Method
dvisc	0.0002542	Paxs	568.18	Joback Method
dvisc	0.0004596	Paxs	510.02	Joback Method
dvisc	0.0009679	Paxs	451.86	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U359500&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359500&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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