

# Glutaric acid, 10-chlorodecyl ethyl ester

<b>Inchi:</b>	InChI=1S/C17H31ClO4/c1-2-21-16(19)12-11-13-17(20)22-15-10-8-6-4-3-5-7-9-14-18/h2-
<b>InchiKey:</b>	JCSQLUDTFGWAK-UHFFFAOYSA-N
<b>Formula:</b>	C17H31ClO4
<b>SMILES:</b>	CCOC(=O)CCCC(=O)OCCCCCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	334.88

## Physical Properties

Property code	Value	Unit	Source
gf	-387.51	kJ/mol	Joback Method
hf	-899.55	kJ/mol	Joback Method
hfus	49.56	kJ/mol	Joback Method
hvap	76.13	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	4.623		Crippen Method
mcvol	277.510	ml/mol	McGowan Method
pc	1280.08	kPa	Joback Method
rinqol	2424.00		NIST Webbook
tb	778.37	K	Joback Method
tc	961.19	K	Joback Method
tf	455.59	K	Joback Method
vc	1.085	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	822.48	J/molxK	778.37	Joback Method
cpg	838.60	J/molxK	808.84	Joback Method
cpg	853.83	J/molxK	839.31	Joback Method
cpg	868.17	J/molxK	869.78	Joback Method
cpg	881.62	J/molxK	900.25	Joback Method
cpg	894.21	J/molxK	930.72	Joback Method
cpg	905.95	J/molxK	961.19	Joback Method
dvisc	0.0009196	Paxs	455.59	Joback Method
dvisc	0.0004784	Paxs	509.39	Joback Method

dvisc	0.0002820	Paxs	563.18	Joback Method
dvisc	0.0001823	Paxs	616.98	Joback Method
dvisc	0.0001263	Paxs	670.78	Joback Method
dvisc	0.0000925	Paxs	724.57	Joback Method
dvisc	0.0000707	Paxs	778.37	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U359395&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359395&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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