

# Glutaric acid, 10-chlorodecyl dec-9-enyl ester

<b>Inchi:</b>	InChI=1S/C25H45ClO4/c1-2-3-4-5-6-10-13-16-22-29-24(27)19-18-20-25(28)30-23-17-14
<b>InchiKey:</b>	USGKYWZAODPYCH-UHFFFAOYSA-N
<b>Formula:</b>	C25H45ClO4
<b>SMILES:</b>	C=CCCCCCCCCOC(=O)CCCC(=O)OCCCCCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	445.07

## Physical Properties

Property code	Value	Unit	Source
gf	-232.31	kJ/mol	Joback Method
hf	-939.24	kJ/mol	Joback Method
hfus	69.00	kJ/mol	Joback Method
hvap	93.27	kJ/mol	Joback Method
log10ws	-8.02		Crippen Method
logp	7.519		Crippen Method
mcvol	385.930	ml/mol	McGowan Method
pc	806.62	kPa	Joback Method
rinpol	3264.00		NIST Webbook
tb	958.09	K	Joback Method
tc	1177.94	K	Joback Method
tf	543.99	K	Joback Method
vc	1.514	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1282.02	J/molxK	958.09	Joback Method
cpg	1301.26	J/molxK	994.73	Joback Method
cpg	1318.98	J/molxK	1031.37	Joback Method
cpg	1335.22	J/molxK	1068.02	Joback Method
cpg	1350.05	J/molxK	1104.66	Joback Method
cpg	1363.52	J/molxK	1141.30	Joback Method
cpg	1375.68	J/molxK	1177.94	Joback Method
dvisc	0.0003698	Paxs	543.99	Joback Method
dvisc	0.0001789	Paxs	613.01	Joback Method

dvisc	0.0001003	Paxs	682.02	Joback Method
dvisc	0.0000625	Paxs	751.04	Joback Method
dvisc	0.0000422	Paxs	820.06	Joback Method
dvisc	0.0000303	Paxs	889.07	Joback Method
dvisc	0.0000228	Paxs	958.09	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=U359408&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359408&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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

Latest version available from:

<https://www.chemeo.com/cid/31-246-4/Glutaric-acid-10-chlorodecyl-dec-9-enyl-ester.pdf>

Generated by Cheméo on 2024-05-07 14:12:17.357117438 +0000 UTC m=+17380386.277694758.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.