

# Glutaric acid, 2-(3-chlorophenyl)ethyl hexadecyl ester

Inchi:	InChI=1S/C29H47ClO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-23-33-28(31)20-17-21-29
InchiKey:	RAXIRJGCCHUKBY-UHFFFAOYSA-N
Formula:	C29H47ClO4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCCc1cccc(Cl)c1
Mol. weight [g/mol]:	495.13

## Physical Properties

Property code	Value	Unit	Source
gf	-183.69	kJ/mol	Joback Method
hf	-922.17	kJ/mol	Joback Method
hfus	74.29	kJ/mol	Joback Method
hvap	105.78	kJ/mol	Joback Method
log10ws	-9.47		Crippen Method
logp	8.620		Crippen Method
mcvol	422.830	ml/mol	McGowan Method
pc	758.49	kPa	Joback Method
rinpola	3650.00		NIST Webbook
tb	1084.59	K	Joback Method
tc	1341.47	K	Joback Method
tf	629.77	K	Joback Method
vc	1.649	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1458.02	J/molxK	1084.59	Joback Method
cpg	1526.22	J/molxK	1298.66	Joback Method
cpg	1516.20	J/molxK	1255.85	Joback Method
cpg	1504.47	J/molxK	1213.03	Joback Method
cpg	1490.93	J/molxK	1170.22	Joback Method
cpg	1475.49	J/molxK	1127.40	Joback Method
cpg	1534.64	J/molxK	1341.47	Joback Method
dvisc	0.0000119	Paxs	1084.59	Joback Method
dvisc	0.0000156	Paxs	1008.79	Joback Method

dvisc	0.0000214	Paxs	932.98	Joback Method
dvisc	0.0000310	Paxs	857.18	Joback Method
dvisc	0.0000484	Paxs	781.38	Joback Method
dvisc	0.0000832	Paxs	705.57	Joback Method
dvisc	0.0001626	Paxs	629.77	Joback Method

## Sources

<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=U377296&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377296&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>

## 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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