

# cis-Cyclohex-4-en-1,2-dicarboxylic acid, 4-chloro-3-methylphenyl tetradecyl ester

Inchi:	InChI=1S/C29H43ClO4/c1-3-4-5-6-7-8-9-10-11-12-13-16-21-33-28(31)25-17-14-15-18-20
InchiKey:	VPETZAJLOSQPPE-UHFFFAOYSA-N
Formula:	C29H43ClO4
SMILES:	CCCCCCCCCCCCCOC(=O)C1CC=CCC1C(=O)Oc1ccc(Cl)c(C)c1
Mol. weight [g/mol]:	491.10

## Physical Properties

Property code	Value	Unit	Source
gf	-146.62	kJ/mol	Joback Method
hf	-841.88	kJ/mol	Joback Method
hfus	68.03	kJ/mol	Joback Method
hvap	106.86	kJ/mol	Joback Method
log10ws	-9.45		Crippen Method
logp	8.381		Crippen Method
mvol	407.670	ml/mol	McGowan Method
pc	846.03	kPa	Joback Method
rinpol	3528.00		NIST Webbook
rinpol	3528.00		NIST Webbook
tb	1103.61	K	Joback Method
tc	1353.75	K	Joback Method
tf	646.19	K	Joback Method
vc	1.567	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1419.65	J/molxK	1103.61	Joback Method
cpg	1433.83	J/molxK	1145.30	Joback Method
cpg	1445.86	J/molxK	1186.99	Joback Method
cpg	1455.82	J/molxK	1228.68	Joback Method
cpg	1463.78	J/molxK	1270.37	Joback Method
cpg	1469.82	J/molxK	1312.06	Joback Method
cpg	1474.02	J/molxK	1353.75	Joback Method
dvisc	0.0001996	Paxs	646.19	Joback Method

dvisc	0.0001098	Paxs	722.43	Joback Method
dvisc	0.0000677	Paxs	798.66	Joback Method
dvisc	0.0000454	Paxs	874.90	Joback Method
dvisc	0.0000325	Paxs	951.14	Joback Method
dvisc	0.0000244	Paxs	1027.37	Joback Method
dvisc	0.0000191	Paxs	1103.61	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382658&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382658&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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