

# 1,2-Cyclohexanedicarboxylic acid, 2-chloroethyl tetradecyl ester

**Inchi:** InChI=1S/C24H43ClO4/c1-2-3-4-5-6-7-8-9-10-11-12-15-19-28-23(26)21-16-13-14-17-22  
**InchiKey:** IORCAXGUDIKWPG-UHFFFAOYSA-N  
**Formula:** C24H43ClO4  
**SMILES:** CCCCCCCCCCCCCOC(=O)C1CCCCC1C(=O)OCCCI  
**Mol. weight [g/mol]:** 431.05

## Physical Properties

Property code	Value	Unit	Source
gf	-311.83	kJ/mol	Joback Method
hf	-1010.05	kJ/mol	Joback Method
hfus	60.59	kJ/mol	Joback Method
hvap	91.83	kJ/mol	Joback Method
log10ws	-7.16		Crippen Method
logp	6.819		Crippen Method
mvol	365.280	ml/mol	McGowan Method
pc	921.06	kPa	Joback Method
rinpol	2996.00		NIST Webbook
rinpol	2996.00		NIST Webbook
tb	953.41	K	Joback Method
tc	1167.24	K	Joback Method
tf	537.62	K	Joback Method
vc	1.409	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1248.83	J/molxK	953.41	Joback Method
cpg	1267.24	J/molxK	989.05	Joback Method
cpg	1283.97	J/molxK	1024.69	Joback Method
cpg	1299.05	J/molxK	1060.33	Joback Method
cpg	1312.53	J/molxK	1095.96	Joback Method
cpg	1324.44	J/molxK	1131.60	Joback Method
cpg	1334.82	J/molxK	1167.24	Joback Method
dvisc	0.0005127	Paxs	537.62	Joback Method

dvisc	0.0002515	Paxs	606.92	Joback Method
dvisc	0.0001427	Paxs	676.22	Joback Method
dvisc	0.0000900	Paxs	745.51	Joback Method
dvisc	0.0000614	Paxs	814.81	Joback Method
dvisc	0.0000444	Paxs	884.11	Joback Method
dvisc	0.0000337	Paxs	953.41	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U340052&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U340052&amp;Units=SI</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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