

# 1,2-Cyclohexanedicarboxylic acid, 2-chlorophenyl dodecyl ester

**Inchi:** InChI=1S/C26H39ClO4/c1-2-3-4-5-6-7-8-9-10-15-20-30-25(28)21-16-11-12-17-22(21)26  
**InchiKey:** SANGHKSWEYCKSW-UHFFFAOYSA-N  
**Formula:** C26H39ClO4  
**SMILES:** CCCCCCCCCCOC(=O)C1CCCCC1C(=O)Oc1ccccc1Cl  
**Mol. weight [g/mol]:** 451.04

## Physical Properties

Property code	Value	Unit	Source
gf	-192.21	kJ/mol	Joback Method
hf	-826.27	kJ/mol	Joback Method
hfus	59.42	kJ/mol	Joback Method
hvap	99.22	kJ/mol	Joback Method
log10ws	-8.28		Crippen Method
logp	7.516		Crippen Method
mvol	369.700	ml/mol	McGowan Method
pc	994.51	kPa	Joback Method
rinpol	3233.00		NIST Webbook
rinpol	3233.00		NIST Webbook
tb	1030.83	K	Joback Method
tc	1262.35	K	Joback Method
tf	599.10	K	Joback Method
vc	1.413	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1267.65	J/molxK	1030.83	Joback Method
cpg	1325.41	J/molxK	1223.77	Joback Method
cpg	1317.35	J/molxK	1185.18	Joback Method
cpg	1307.60	J/molxK	1146.59	Joback Method
cpg	1296.10	J/molxK	1108.00	Joback Method
cpg	1282.80	J/molxK	1069.42	Joback Method
cpg	1331.84	J/molxK	1262.35	Joback Method
dvisc	0.0000265	Paxs	1030.83	Joback Method

dvisc	0.0000342	Paxs	958.87	Joback Method
dvisc	0.0000461	Paxs	886.92	Joback Method
dvisc	0.0000655	Paxs	814.96	Joback Method
dvisc	0.0000996	Paxs	743.01	Joback Method
dvisc	0.0001657	Paxs	671.05	Joback Method
dvisc	0.0003115	Paxs	599.10	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=U339590&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339590&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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