

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

<b>Inchi:</b>	InChI=1S/C22H29ClO4/c1-3-4-5-6-9-14-26-21(24)18-10-7-8-11-19(18)22(25)27-17-12-13
<b>InchiKey:</b>	KDFROPAKHRGPHZ-UHFFFAOYSA-N
<b>Formula:</b>	C22H29ClO4
<b>SMILES:</b>	CCCCCCCOC(=O)C1CC=CCC1C(=O)Oc1ccc(Cl)c(C)c1
<b>Mol. weight [g/mol]:</b>	392.92

## Physical Properties

Property code	Value	Unit	Source
gf	-205.56	kJ/mol	Joback Method
hf	-697.40	kJ/mol	Joback Method
hfus	49.90	kJ/mol	Joback Method
hvap	91.27	kJ/mol	Joback Method
log10ws	-6.52		Crippen Method
logp	5.650		Crippen Method
mvol	309.040	ml/mol	McGowan Method
pc	1307.06	kPa	Joback Method
rinpol	2808.00		NIST Webbook
rinpol	2808.00		NIST Webbook
tb	943.45	K	Joback Method
tc	1167.27	K	Joback Method
tf	567.30	K	Joback Method
vc	1.175	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	991.76	J/molxK	943.45	Joback Method
cpg	1006.49	J/molxK	980.75	Joback Method
cpg	1019.63	J/molxK	1018.06	Joback Method
cpg	1031.22	J/molxK	1055.36	Joback Method
cpg	1041.28	J/molxK	1092.67	Joback Method
cpg	1049.84	J/molxK	1129.97	Joback Method
cpg	1056.93	J/molxK	1167.27	Joback Method
dvisc	0.0004423	Paxs	567.30	Joback Method

dvisc	0.0002613	Paxs	629.99	Joback Method
dvisc	0.0001698	Paxs	692.68	Joback Method
dvisc	0.0001185	Paxs	755.38	Joback Method
dvisc	0.0000874	Paxs	818.07	Joback Method
dvisc	0.0000673	Paxs	880.76	Joback Method
dvisc	0.0000537	Paxs	943.45	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=U382652&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382652&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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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/87-109-5/cis-Cyclohex-4-en-1-2-dicarboxylic-acid-4-chloro-3-methylphenyl-heptyl-ester>.

Generated by Cheméo on 2024-05-11 22:12:48.396437401 +0000 UTC m=+17754817.317014717.

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