

# cis-Cyclohex-4-en-1,2-dicarboxylic acid, di(4-chloro-3-methylphenyl) ester

<b>Inchi:</b>	InChI=1S/C22H20Cl2O4/c1-13-11-15(7-9-19(13)23)27-21(25)17-5-3-4-6-18(17)22(26)28
<b>InchiKey:</b>	RQGDIHNJOSPEBX-UHFFFAOYSA-N
<b>Formula:</b>	C22H20Cl2O4
<b>SMILES:</b>	<chem>Cc1cc(OC(=O)C2CC=CCC2C(=O)Oc2ccc(Cl)c(C)c2)ccc1Cl</chem>
<b>Mol. weight [g/mol]:</b>	419.30

## Physical Properties

Property code	Value	Unit	Source
gf	-124.34	kJ/mol	Joback Method
hf	-499.55	kJ/mol	Joback Method
hfus	47.36	kJ/mol	Joback Method
hvap	99.26	kJ/mol	Joback Method
log10ws	-7.01		Crippen Method
logp	5.704		Crippen Method
mvol	297.520	ml/mol	McGowan Method
pc	1597.44	kPa	Joback Method
rinpol	3174.00		NIST Webbook
rinpol	3174.00		NIST Webbook
tb	1017.52	K	Joback Method
tc	1271.19	K	Joback Method
tf	648.68	K	Joback Method
vc	1.115	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	901.87	J/molxK	1017.52	Joback Method
cpg	911.98	J/molxK	1059.80	Joback Method
cpg	920.25	J/molxK	1102.08	Joback Method
cpg	926.72	J/molxK	1144.35	Joback Method
cpg	931.43	J/molxK	1186.63	Joback Method
cpg	934.40	J/molxK	1228.91	Joback Method
cpg	935.68	J/molxK	1271.19	Joback Method
dvisc	0.0002874	Paxs	648.68	Joback Method

dvisc	0.0001899	Paxs	710.15	Joback Method
dvisc	0.0001341	Paxs	771.63	Joback Method
dvisc	0.0000997	Paxs	833.10	Joback Method
dvisc	0.0000771	Paxs	894.57	Joback Method
dvisc	0.0000617	Paxs	956.05	Joback Method
dvisc	0.0000507	Paxs	1017.52	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=U382659&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382659&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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