

# Cyclopentanecarboxylic acid, 3,4-dichlorophenyl ester

Inchi:	InChI=1S/C12H12Cl2O2/c13-10-6-5-9(7-11(10)14)16-12(15)8-3-1-2-4-8/h5-8H,1-4H2
InchiKey:	CIKRVIKIBNQLQZ-UHFFFAOYSA-N
Formula:	C12H12Cl2O2
SMILES:	O=C(Oc1ccc(Cl)c(Cl)c1)C1CCCC1
Mol. weight [g/mol]:	259.13

## Physical Properties

Property code	Value	Unit	Source
gf	-77.92	kJ/mol	Joback Method
hf	-293.22	kJ/mol	Joback Method
hfus	25.21	kJ/mol	Joback Method
hvap	64.09	kJ/mol	Joback Method
log10ws	-4.48		Crippen Method
logp	4.089		Crippen Method
mcvol	177.240	ml/mol	McGowan Method
pc	2721.17	kPa	Joback Method
rinsol	1849.00		NIST Webbook
tb	677.03	K	Joback Method
tc	921.84	K	Joback Method
tf	419.36	K	Joback Method
vc	0.662	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	434.39	J/molxK	677.03	Joback Method
cpg	449.07	J/molxK	717.83	Joback Method
cpg	462.59	J/molxK	758.63	Joback Method
cpg	475.00	J/molxK	799.43	Joback Method
cpg	486.34	J/molxK	840.23	Joback Method
cpg	496.64	J/molxK	881.03	Joback Method
cpg	505.95	J/molxK	921.84	Joback Method
dvisc	0.0014060	Paxs	419.36	Joback Method
dvisc	0.0009042	Paxs	462.31	Joback Method

dvisc	0.0006268	Paxs	505.25	Joback Method
dvisc	0.0004602	Paxs	548.19	Joback Method
dvisc	0.0003533	Paxs	591.14	Joback Method
dvisc	0.0002812	Paxs	634.09	Joback Method
dvisc	0.0002304	Paxs	677.03	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=U307579&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307579&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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