

# 3-Cyclopentylpropionic acid, 2,4,5-trichlorophenyl ester

Inchi:	InChI=1S/C14H15Cl3O2/c15-10-7-12(17)13(8-11(10)16)19-14(18)6-5-9-3-1-2-4-9/h7-9H
InchiKey:	XIBYBGGUAYSUMU-UHFFFAOYSA-N
Formula:	C14H15Cl3O2
SMILES:	O=C(CCC1CCCC1)Oc1cc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]:	321.63

## Physical Properties

Property code	Value	Unit	Source
gf	-82.64	kJ/mol	Joback Method
hf	-361.71	kJ/mol	Joback Method
hfus	34.20	kJ/mol	Joback Method
hvap	73.59	kJ/mol	Joback Method
log10ws	-6.00		Crippen Method
logp	5.523		Crippen Method
mvol	217.660	ml/mol	McGowan Method
pc	2141.36	kPa	Joback Method
rinpol	2276.00		NIST Webbook
rinpol	2276.00		NIST Webbook
tb	765.20	K	Joback Method
tc	1003.27	K	Joback Method
tf	484.34	K	Joback Method
vc	0.824	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	562.24	J/molxK	765.20	Joback Method
cpg	576.31	J/molxK	804.88	Joback Method
cpg	589.23	J/molxK	844.56	Joback Method
cpg	601.04	J/molxK	884.24	Joback Method
cpg	611.79	J/molxK	923.92	Joback Method
cpg	621.52	J/molxK	963.59	Joback Method
cpg	630.27	J/molxK	1003.27	Joback Method
dvisc	0.0009588	Paxs	484.34	Joback Method

dvisc	0.0006307	Paxs	531.15	Joback Method
dvisc	0.0004441	Paxs	577.96	Joback Method
dvisc	0.0003295	Paxs	624.77	Joback Method
dvisc	0.0002549	Paxs	671.58	Joback Method
dvisc	0.0002039	Paxs	718.39	Joback Method
dvisc	0.0001676	Paxs	765.20	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=U354059&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354059&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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