

# Cyclopropanecarboxylic acid, trans-2-phenyl-, 8-chlorooctyl ester

<b>Inchi:</b>	InChI=1S/C18H25ClO2/c19-12-8-3-1-2-4-9-13-21-18(20)17-14-16(17)15-10-6-5-7-11-15
<b>InchiKey:</b>	BIAZODDACMIMPI-UHFFFAOYSA-N
<b>Formula:</b>	C18H25ClO2
<b>SMILES:</b>	O=C(OCCCCCCCCI)C1CC1c1ccccc1
<b>Mol. weight [g/mol]:</b>	308.84

## Physical Properties

Property code	Value	Unit	Source
gf	20.28	kJ/mol	Joback Method
hf	-386.40	kJ/mol	Joback Method
hfus	42.61	kJ/mol	Joback Method
hvap	71.08	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	4.913		Crippen Method
mcvol	249.540	ml/mol	McGowan Method
pc	1588.54	kPa	Joback Method
rinpol	2449.00		NIST Webbook
tb	753.71	K	Joback Method
tc	959.25	K	Joback Method
tf	434.82	K	Joback Method
vc	0.965	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	729.26	J/molxK	753.71	Joback Method
cpg	746.55	J/molxK	787.97	Joback Method
cpg	762.75	J/molxK	822.22	Joback Method
cpg	777.92	J/molxK	856.48	Joback Method
cpg	792.13	J/molxK	890.74	Joback Method
cpg	805.42	J/molxK	925.00	Joback Method
cpg	817.86	J/molxK	959.25	Joback Method
dvisc	0.0017795	Paxs	434.82	Joback Method
dvisc	0.0011294	Paxs	487.97	Joback Method

dvisc	0.0007838	Paxs	541.12	Joback Method
dvisc	0.0005807	Paxs	594.26	Joback Method
dvisc	0.0004519	Paxs	647.41	Joback Method
dvisc	0.0003654	Paxs	700.56	Joback Method
dvisc	0.0003044	Paxs	753.71	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=U406847&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406847&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>

## 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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