

# Cyclopropanecarboxylic acid, trans-2-phenyl-, 2-ethylhexyl ester

<b>Inchi:</b>	InChI=1S/C18H26O2/c1-3-5-9-14(4-2)13-20-18(19)17-12-16(17)15-10-7-6-8-11-15/h6-8,
<b>InchiKey:</b>	KKKUGSXIQOSMKI-UHFFFAOYSA-N
<b>Formula:</b>	C18H26O2
<b>SMILES:</b>	CCCCC(CC)COC(=O)C1CC1c1ccccc1
<b>Mol. weight [g/mol]:</b>	274.40

## Physical Properties

Property code	Value	Unit	Source
gf	29.77	kJ/mol	Joback Method
hf	-375.94	kJ/mol	Joback Method
hfus	34.89	kJ/mol	Joback Method
hvap	66.31	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	4.550		Crippen Method
mvol	237.300	ml/mol	McGowan Method
pc	1647.09	kPa	Joback Method
rinpol	2042.00		NIST Webbook
rinpol	2042.00		NIST Webbook
tb	715.84	K	Joback Method
tc	921.00	K	Joback Method
tf	389.90	K	Joback Method
vc	0.909	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	698.95	J/molxK	715.84	Joback Method
cpg	717.79	J/molxK	750.03	Joback Method
cpg	735.46	J/molxK	784.23	Joback Method
cpg	752.04	J/molxK	818.42	Joback Method
cpg	767.57	J/molxK	852.61	Joback Method
cpg	782.11	J/molxK	886.80	Joback Method
cpg	795.71	J/molxK	921.00	Joback Method
dvisc	0.0021308	Paxs	389.90	Joback Method

dvisc	0.0012576	Paxs	444.22	Joback Method
dvisc	0.0008326	Paxs	498.55	Joback Method
dvisc	0.0005977	Paxs	552.87	Joback Method
dvisc	0.0004554	Paxs	607.19	Joback Method
dvisc	0.0003627	Paxs	661.52	Joback Method
dvisc	0.0002991	Paxs	715.84	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=U406880&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406880&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>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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