

# Cyclopropanecarboxylic acid, trans-2-phenyl-, undec-2-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C21H30O2/c1-2-3-4-5-6-7-8-9-13-16-23-21(22)20-17-19(20)18-14-11-10-12-15
<b>InchiKey:</b>	QPHMNANXWRMBPH-UKTHLTGXSA-N
<b>Formula:</b>	C21H30O2
<b>SMILES:</b>	CCCCCCCCC=CCOC(=O)C1CC1c1ccccc1
<b>Mol. weight [g/mol]:</b>	314.46

## Physical Properties

Property code	Value	Unit	Source
gf	137.69	kJ/mol	Joback Method
hf	-315.36	kJ/mol	Joback Method
hfus	46.38	kJ/mol	Joback Method
hvap	73.33	kJ/mol	Joback Method
log10ws	-6.05		Crippen Method
logp	5.640		Crippen Method
mcvol	275.270	ml/mol	McGowan Method
pc	1363.65	kPa	Joback Method
rinpol	2456.00		NIST Webbook
rinpol	2456.00		NIST Webbook
tb	789.08	K	Joback Method
tc	992.27	K	Joback Method
tf	433.63	K	Joback Method
vc	1.063	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	847.93	J/molxK	789.08	Joback Method
cpg	930.67	J/molxK	958.41	Joback Method
cpg	916.03	J/molxK	924.54	Joback Method
cpg	900.51	J/molxK	890.68	Joback Method
cpg	884.04	J/molxK	856.81	Joback Method
cpg	866.54	J/molxK	822.95	Joback Method
cpg	944.50	J/molxK	992.27	Joback Method
dvisc	0.0002106	Paxs	789.08	Joback Method

dvisc	0.0002561	Paxs	729.84	Joback Method
dvisc	0.0003225	Paxs	670.60	Joback Method
dvisc	0.0004245	Paxs	611.36	Joback Method
dvisc	0.0005927	Paxs	552.11	Joback Method
dvisc	0.0008968	Paxs	492.87	Joback Method
dvisc	0.0015195	Paxs	433.63	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406912&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406912&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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