Cyclopropanecarboxylic acid, trans-2-phenyl-, oct-3-en-2-yl ester

Inchi: InChI=1S/C18H24O2/c1-3-4-5-7-10-14(2)20-18(19)17-13-16(17)15-11-8-6-9-12-15/h6-12

InchiKey: YMMIEKBQBRAIEL-JXMROGBWSA-N

Formula: C18H24O2

SMILES: CCCCC=CC(C)OC(=O)C1CC1c1ccccc1

Mol. weight [g/mol]: 272.38

Physical Properties

Property code	Value	Unit	Source
gf	109.99	kJ/mol	Joback Method
hf	-258.72	kJ/mol	Joback Method
hfus	35.09	kJ/mol	Joback Method
hvap	66.27	kJ/mol	Joback Method
log10ws	-4.90		Crippen Method
logp	4.468		Crippen Method
mcvol	233.000	ml/mol	McGowan Method
pc	1718.88	kPa	Joback Method
rinpol	2032.00		NIST Webbook
rinpol	2032.00		NIST Webbook
tb	720.00	K	Joback Method
tc	932.25	K	Joback Method
tf	384.82	K	Joback Method
vc	0.889	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	675.77	J/mol×K	720.00	Joback Method
cpg	694.16	J/mol×K	755.37	Joback Method
cpg	711.38	J/mol×K	790.75	Joback Method
cpg	727.50	J/mol×K	826.12	Joback Method
cpg	742.60	J/mol×K	861.50	Joback Method
cpg	756.75	J/mol×K	896.87	Joback Method
cpg	770.03	J/mol×K	932.25	Joback Method
dvisc	0.0019315	Pa×s	384.82	Joback Method

dvisc	0.0011188	Pa×s	440.68	Joback Method
dvisc	0.0007328	Pa×s	496.55	Joback Method
dvisc	0.0005229	Pa×s	552.41	Joback Method
dvisc	0.0003969	Pa×s	608.27	Joback Method
dvisc	0.0003156	Pa×s	664.14	Joback Method
dvisc	0.0002601	Pa×s	720.00	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406909&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume