cis-3-Hexenylcinnamate

Other names:	Cinnamic acid cis-3-hexenyl ester
	2-Propenoic acid, 3-phenyl-, 3(Z)-hexenyl ester
	Cinnamic acid, (Z)-3-hexenyl ester
	(3Z)-3-Hexenyl 3-phenyl-2-propenoate
	(Z)-3-hexenyl cinnamate
	(Z)-3-Hexenyl cinnamic ester
Inchi:	InChI=1S/C15H18O2/c1-2-3-4-8-13-17-15(16)12-11-14-9-6-5-7-10-14/h3-7,9-12H,2,8,13
InchiKey:	FKWGVMQNGUQXDN-FECXASIGSA-N
Formula:	C15H18O2
SMILES:	CCC=CCCOC(=O)C=Cc1ccccc1
Mol. weight [g/mol]:	230.30
CAS:	68133-75-5

Physical Properties

Property code	Value	Unit	Source
gf	114.35	kJ/mol	Joback Method
hf	-126.76	kJ/mol	Joback Method
hfus	31.84	kJ/mol	Joback Method
hvap	60.33	kJ/mol	Joback Method
log10ws	-3.94		Crippen Method
logp	3.599		Crippen Method
mcvol	197.290	ml/mol	McGowan Method
pc	2110.00	kPa	Joback Method
rinpol	1897.00		NIST Webbook
tb	653.89	K	Joback Method
tc	866.88	K	Joback Method
tf	347.23	K	Joback Method
vc	0.751	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.36	J/mol×K	653.89	Joback Method
cpg	519.14	J/mol×K	689.39	Joback Method

cpg	533.92	J/mol×K	724.89	Joback Method
cpg	547.75	J/mol×K	760.38	Joback Method
cpg	560.70	J/mol×K	795.88	Joback Method
cpg	572.83	J/mol×K	831.38	Joback Method
cpg	584.19	J/mol×K	866.88	Joback Method
dvisc	0.0016634	Pa×s	347.23	Joback Method
dvisc	0.0007721	Pa×s	398.34	Joback Method
dvisc	0.0004267	Pa×s	449.45	Joback Method
dvisc	0.0002662	Pa×s	500.56	Joback Method
dvisc	0.0001813	Pa×s	551.67	Joback Method
dvisc	0.0001317	Pa×s	602.78	Joback Method
dvisc	0.0001006	Pa×s	653.89	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C68133755&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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