(Z)-Hex-3-enyl dihydrocinnamate

Other names: (Z)-Hex-3-enyl 3-phenylpropanoate
Inchi: InChI=1S/C15H20O2/c1-2-3-4-8-13-17-15(16)12-11-14-9-6-5-7-10-14/h3-7,9-10H,2,8,11
InchiKey: AIYOLSZNDXXKPH-ARJAWSKDSA-N
Formula: C15H20O2
SMILES: CCC=CCCOC(=O)CCc1ccccc1
Mol. weight [g/mol]: 232.32

Physical Properties

Property code	Value	Unit	Source
gf	34.13	kJ/mol	Joback Method
hf	-243.98	kJ/mol	Joback Method
hfus	31.64	kJ/mol	Joback Method
hvap	60.37	kJ/mol	Joback Method
log10ws	-3.92		Crippen Method
logp	3.519		Crippen Method
mcvol	201.590	ml/mol	McGowan Method
pc	2012.70	kPa	Joback Method
rinpol	1716.00		NIST Webbook
rinpol	1715.00		NIST Webbook
ripol	2346.00		NIST Webbook
ripol	2346.00		NIST Webbook
ripol	2347.00		NIST Webbook
ripol	2347.00		NIST Webbook
tb	649.73	K	Joback Method
tc	854.73	K	Joback Method
tf	352.31	K	Joback Method
vc	0.771	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	525.00	J/mol×K	649.73	Joback Method
cpg	541.30	J/mol×K	683.90	Joback Method
cpg	556.63	J/mol×K	718.06	Joback Method

cpg	571.03	J/mol×K	752.23	Joback Method
cpg	584.55	J/mol×K	786.39	Joback Method
cpg	597.22	J/mol×K	820.56	Joback Method
cpg	609.10	J/mol×K	854.73	Joback Method
dvisc	0.0017946	Pa×s	352.31	Joback Method
dvisc	0.0008601	Pa×s	401.88	Joback Method
dvisc	0.0004845	Pa×s	451.45	Joback Method
dvisc	0.0003057	Pa×s	501.02	Joback Method
dvisc	0.0002096	Pa×s	550.59	Joback Method
dvisc	0.0001529	Pa×s	600.16	Joback Method
dvisc	0.0001171	Pa×s	649.73	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=R229079&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume