

1-Ethenyl-7-methyloctyl Prop-2-enoate

Inchi:	InChI=1S/C14H24O2/c1-5-13(16-14(15)6-2)11-9-7-8-10-12(3)4/h5-6,12-13H,1-2,7-11H2
InchiKey:	SDKFPARMEUMSPM-UHFFFAOYSA-N
Formula:	C14H24O2
SMILES:	C=CC(=O)OC(C=C)CCCCC(C)C
Mol. weight [g/mol]:	224.34

Physical Properties

Property code	Value	Unit	Source
gf	3.88	kJ/mol	Joback Method
hf	-336.79	kJ/mol	Joback Method
hfus	25.20	kJ/mol	Joback Method
hvap	53.80	kJ/mol	Joback Method
log10ws	-4.12		Crippen Method
logp	3.877		Crippen Method
mvol	206.960	ml/mol	McGowan Method
pc	1713.19	kPa	Joback Method
rinpol	1443.00		NIST Webbook
rinpol	1443.00		NIST Webbook
tb	588.49	K	Joback Method
tc	767.54	K	Joback Method
tf	286.18	K	Joback Method
vc	0.793	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	525.23	J/molxK	588.49	Joback Method
cpg	600.56	J/molxK	737.70	Joback Method
cpg	586.94	J/molxK	707.86	Joback Method
cpg	572.61	J/molxK	678.02	Joback Method
cpg	557.57	J/molxK	648.17	Joback Method
cpg	541.78	J/molxK	618.33	Joback Method
cpg	613.50	J/molxK	767.54	Joback Method
dvisc	0.0001440	Paxs	588.49	Joback Method

dvisc	0.0001962	Paxs	538.11	Joback Method
dvisc	0.0002849	Paxs	487.72	Joback Method
dvisc	0.0004507	Paxs	437.34	Joback Method
dvisc	0.0008036	Paxs	386.95	Joback Method
dvisc	0.0017037	Paxs	336.56	Joback Method
dvisc	0.0047061	Paxs	286.18	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=R412607&Units=SI

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

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