E5,Z7-Dodecadien-1-ol, acetate

Inchi: InChI=1S/C14H24O2/c1-3-4-5-6-7-8-9-10-11-12-13-16-14(2)15/h6-9H,3-5,10-13H2,1-2H
InchiKey: LILNZTGQAGPWKK-NMMTYZSQSA-N
Formula: C14H24O2
SMILES: CCCCC=CC=CCCCCOC(C)=O
Mol. weight [g/mol]: 224.34

Physical Properties

Property code	Value	Unit	Source
gf	-6.48	kJ/mol	Joback Method
hf	-342.65	kJ/mol	Joback Method
hfus	35.21	kJ/mol	Joback Method
hvap	55.83	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	4.022		Crippen Method
mcvol	206.960	ml/mol	McGowan Method
pc	1718.88	kPa	Joback Method
rinpol	1640.00		NIST Webbook
rinpol	1640.00		NIST Webbook
rinpol	1640.00		NIST Webbook
rinpol	1640.00		NIST Webbook
rinpol	1640.00		NIST Webbook
ripol	2071.00		NIST Webbook
ripol	2071.00		NIST Webbook
ripol	2072.00		NIST Webbook
ripol	2061.00		NIST Webbook
ripol	2061.00		NIST Webbook
ripol	2072.00		NIST Webbook
tb	604.33	K	Joback Method
tc	784.52	K	Joback Method
tf	309.54	K	Joback Method
vc	0.803	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	527.63	J/mol×K	604.33	Joback Method
cpg	543.73	J/mol×K	634.36	Joback Method
cpg	559.08	J/mol×K	664.39	Joback Method
cpg	573.70	J/mol×K	694.42	Joback Method
cpg	587.61	J/mol×K	724.45	Joback Method
cpg	600.86	J/mol×K	754.48	Joback Method
cpg	613.47	J/mol×K	784.52	Joback Method
dvisc	0.0024152	Pa×s	309.54	Joback Method
dvisc	0.0010193	Pa×s	358.67	Joback Method
dvisc	0.0005296	Pa×s	407.80	Joback Method
dvisc	0.0003167	Pa×s	456.94	Joback Method
dvisc	0.0002093	Pa×s	506.07	Joback Method
dvisc	0.0001489	Pa×s	555.20	Joback Method
dvisc	0.0001119	Pa×s	604.33	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R517163&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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