p-menth-1-en-9-yl propanoate

Other names: 1-p-Menthe-9-yl propanoate
Inchi: InChI=1S/C13H22O2/c1-4-13(14)15-9-11(3)12-7-5-10(2)6-8-12/h5,11-12H,4,6-9H2,1-3H
InchiKey: XWMAXJVDCTXUBT-UHFFFAOYSA-N
Formula: C13H22O2
SMILES: CCC(=O)OCC(C)C1CC=C(C)CC1
Mol. weight [g/mol]: 210.31

Physical Properties

Property code	Value	Unit	Source
gf	-133.00	kJ/mol	Joback Method
hf	-461.10	kJ/mol	Joback Method
hfus	21.36	kJ/mol	Joback Method
hvap	54.68	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	3.322		Crippen Method
mcvol	186.310	ml/mol	McGowan Method
pc	2092.66	kPa	Joback Method
rinpol	1499.00		NIST Webbook
rinpol	1499.00		NIST Webbook
ripol	1883.00		NIST Webbook
ripol	1883.00		NIST Webbook
tb	596.38	K	Joback Method
tc	799.67	K	Joback Method
tf	314.09	K	Joback Method
vc	0.701	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	486.54	J/mol×K	596.38	Joback Method
cpg	505.26	J/mol×K	630.26	Joback Method
cpg	522.98	J/mol×K	664.14	Joback Method
cpg	539.74	J/mol×K	698.02	Joback Method
cpg	555.55	J/mol×K	731.91	Joback Method

cpg	570.41	J/mol×K	765.79	Joback Method
cpg	584.36	J/mol×K	799.67	Joback Method
dvisc	0.0030756	Pa×s	314.09	Joback Method
dvisc	0.0013882	Pa×s	361.14	Joback Method
dvisc	0.0007527	Pa×s	408.19	Joback Method
dvisc	0.0004631	Pa×s	455.24	Joback Method
dvisc	0.0003121	Pa×s	502.28	Joback Method
dvisc	0.0002251	Pa×s	549.33	Joback Method
dvisc	0.0001709	Pa×s	596.38	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R320513&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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