3-Hexenyl acetate

Other names: hex-3-en-1-yl acetate
Inchi: InChI=1S/C8H14O2/c1-3-4-5-6-7-10-8(2)9/h4-5H,3,6-7H2,1-2H3/b5-4+
InchiKey: NPFVOOAXDOBMCE-SNAWJCMRSA-N
Formula: C8H14O2
SMILES: CCC=CCCOC(C)=O
Mol. weight [g/mol]: 142.20

Physical Properties

Property code	Value	Unit	Source
gf	-137.22	kJ/mol	Joback Method
hf	-336.03	kJ/mol	Joback Method
hfus	19.46	kJ/mol	Joback Method
hvap	42.52	kJ/mol	Joback Method
log10ws	-1.89		Crippen Method
logp	1.906		Crippen Method
mcvol	126.720	ml/mol	McGowan Method
pc	2805.41	kPa	Joback Method
rinpol	987.00		NIST Webbook
rinpol	1009.00		NIST Webbook
rinpol	1004.00		NIST Webbook
rinpol	988.00		NIST Webbook
rinpol	988.00		NIST Webbook
rinpol	1004.00		NIST Webbook
ripol	1276.00		NIST Webbook
ripol	1304.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1300.00		NIST Webbook
ripol	1300.00		NIST Webbook
ripol	1321.00		NIST Webbook
ripol	1300.00		NIST Webbook
ripol	1280.00		NIST Webbook
tb	462.89	K	Joback Method
tc	646.21	K	Joback Method
tf	247.00	K	Joback Method
vc	0.487	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.30	J/mol×K	462.89	Joback Method
cpg	275.19	J/mol×K	493.44	Joback Method
cpg	286.60	J/mol×K	524.00	Joback Method
cpg	297.52	J/mol×K	554.55	Joback Method
cpg	307.96	J/mol×K	585.10	Joback Method
cpg	317.95	J/mol×K	615.66	Joback Method
cpg	327.49	J/mol×K	646.21	Joback Method
dvisc	0.0030324	Pa×s	247.00	Joback Method
dvisc	0.0014687	Pa×s	282.98	Joback Method
dvisc	0.0008378	Pa×s	318.96	Joback Method
dvisc	0.0005355	Pa×s	354.94	Joback Method
dvisc	0.0003717	Pa×s	390.93	Joback Method
dvisc	0.0002744	Pa×s	426.91	Joback Method
dvisc	0.0002123	Pa×s	462.89	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R224336&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