2-Norbornyl acetate

Other names:	Bicyclo[2.2.1]heptan-2-ol, acetate
	Norbornyl acetate
	Acetic acid, bicyclo[2.2.1]hept-2-yl ester
	Bicyclo[2.2.1]hept-2-yl acetate
	Norborneol acetate
Inchi:	InChI=1S/C9H14O2/c1-6(10)11-9-5-7-2-3-8(9)4-7/h7-9H,2-5H2,1H3
InchiKey:	YXNICIBZSREEPY-UHFFFAOYSA-N
Formula:	C9H14O2
SMILES:	CC(=O)OC1CC2CCC1C2
Mol. weight [g/mol]:	154.21
CAS:	34640-76-1

Physical Properties

Property code	Value	Unit	Source
gf	-107.33	kJ/mol	Joback Method
hf	-354.79	kJ/mol	Joback Method
hfus	17.09	kJ/mol	Joback Method
hvap	44.47	kJ/mol	Joback Method
log10ws	-1.87		Crippen Method
logp	1.738		Crippen Method
mcvol	123.390	ml/mol	McGowan Method
pc	3142.03	kPa	Joback Method
rinpol	1132.00		NIST Webbook
rinpol	1110.00		NIST Webbook
rinpol	1112.00		NIST Webbook
rinpol	1114.00		NIST Webbook
rinpol	1114.30		NIST Webbook
rinpol	1127.00		NIST Webbook
rinpol	1127.00		NIST Webbook
rinpol	1114.00		NIST Webbook
rinpol	1112.00		NIST Webbook
rinpol	1112.00		NIST Webbook
ripol	1476.00		NIST Webbook
ripol	1476.00		NIST Webbook
ripol	1476.00		NIST Webbook
tb	494.69	K	Joback Method
tc	703.45	K	Joback Method

tf	237.10 ± 0.60	K	NIST Webbook
vc	0.469	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.85	J/mol×K	494.69	Joback Method
cpg	368.76	J/mol×K	668.65	Joback Method
cpg	355.75	J/mol×K	633.86	Joback Method
cpg	341.89	J/mol×K	599.07	Joback Method
cpg	327.15	J/mol×K	564.28	Joback Method
cpg	311.49	J/mol×K	529.48	Joback Method
cpg	380.99	J/mol×K	703.45	Joback Method
dvisc	0.0008027	Pa×s	494.69	Joback Method
dvisc	0.0008595	Pa×s	460.82	Joback Method
dvisc	0.0009304	Pa×s	426.95	Joback Method
dvisc	0.0010209	Pa×s	393.08	Joback Method
dvisc	0.0011401	Pa×s	359.21	Joback Method
dvisc	0.0013027	Pa×s	325.34	Joback Method
dvisc	0.0015354	Pa×s	291.47	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C34640761&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