2-Furanmethanol, tetrahydro-, acetate

Other names:	Furfuryl alcohol, tetrahydro-, acetate
	Tetrahydrofurfuryl acetate
	2-Acetoxymethyloxolane
	Tetrahydro-2-furanmethanol acetate
	Tetrahydro-2-furanmethyl acetate
	Acetic acid, tetrahydrofurfuryl ester
Inchi:	InChI=1S/C7H12O3/c1-6(8)10-5-7-3-2-4-9-7/h7H,2-5H2,1H3
InchiKey:	AAQDYYFAFXGBFZ-UHFFFAOYSA-N
Formula:	C7H12O3
SMILES:	CC(=O)OCC1CCCO1
Mol. weight [g/mol]:	144.17
CAS:	637-64-9

Physical Properties

Property code	Value	Unit	Source
gf	-275.43	kJ/mol	Joback Method
hf	-504.13	kJ/mol	Joback Method
hfus	18.59	kJ/mol	Joback Method
hvap	45.10	kJ/mol	Joback Method
log10ws	-0.71		Crippen Method
logp	0.728		Crippen Method
mcvol	111.940	ml/mol	McGowan Method
pc	3572.80	kPa	Joback Method
rinpol	1055.00		NIST Webbook
rinpol	1098.00		NIST Webbook
rinpol	1055.00		NIST Webbook
rinpol	1098.00		NIST Webbook
tb	478.08	K	Joback Method
tc	683.59	K	Joback Method
tf	278.28	K	Joback Method
vc	0.413	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.27	J/mol×K	478.08	Joback Method
cpg	263.89	J/mol×K	512.33	Joback Method
cpg	276.85	J/mol×K	546.58	Joback Method
cpg	289.16	J/mol×K	580.84	Joback Method
cpg	300.82	J/mol×K	615.09	Joback Method
cpg	311.86	J/mol×K	649.34	Joback Method
cpg	322.28	J/mol×K	683.59	Joback Method
dvisc	0.0034190	Pa×s	278.28	Joback Method
dvisc	0.0019399	Pa×s	311.58	Joback Method
dvisc	0.0012280	Pa×s	344.88	Joback Method
dvisc	0.0008425	Pa×s	378.18	Joback Method
dvisc	0.0006144	Pa×s	411.48	Joback Method
dvisc	0.0004697	Pa×s	444.78	Joback Method
dvisc	0.0003728	Pa×s	478.08	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C637649&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
tb: Normal Boiling Point Temperature

tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume