3-hydroxy-2-methyltetrahydrofuran

Inchi: InChI=1S/C5H10O2/c1-4-5(6)2-3-7-4/h4-6H,2-3H2,1H3
InchiKey: ZFVWBUVYNPLIIS-UHFFFAOYSA-N
Formula: C5H10O2
SMILES: CC1OCCC1O
Mol. weight [g/mol]: 102.13

Physical Properties

Property code	Value	Unit	Source
gf	-202.88	kJ/mol	Joback Method
hf	-390.62	kJ/mol	Joback Method
hfus	15.78	kJ/mol	Joback Method
hvap	47.86	kJ/mol	Joback Method
log10ws	-0.38		Crippen Method
logp	0.156		Crippen Method
mcvol	82.190	ml/mol	McGowan Method
pc	4640.32	kPa	Joback Method
rinpol	816.00		NIST Webbook
rinpol	816.00		NIST Webbook
tb	443.54	K	Joback Method
tc	632.60	K	Joback Method
tf	240.16	K	Joback Method
vc	0.295	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	178.25	J/mol×K	443.54	Joback Method
cpg	189.10	J/mol×K	475.05	Joback Method
cpg	199.45	J/mol×K	506.56	Joback Method
cpg	209.31	J/mol×K	538.07	Joback Method
cpg	218.70	J/mol×K	569.58	Joback Method
cpg	227.62	J/mol×K	601.09	Joback Method
cpg	236.10	J/mol×K	632.60	Joback Method
dvisc	0.0319611	Pa×s	240.16	Joback Method

dvisc	0.0093294	Pa×s	274.06	Joback Method
dvisc	0.0035712	Pa×s	307.95	Joback Method
dvisc	0.0016538	Pa×s	341.85	Joback Method
dvisc	0.0008800	Pa×s	375.75	Joback Method
dvisc	0.0005198	Pa×s	409.64	Joback Method
dvisc	0.0003327	Pa×s	443.54	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R332695&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume