

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
mvol	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	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

dvisc	0.0093294	Paxs	274.06	Joback Method
dvisc	0.0035712	Paxs	307.95	Joback Method
dvisc	0.0016538	Paxs	341.85	Joback Method
dvisc	0.0008800	Paxs	375.75	Joback Method
dvisc	0.0005198	Paxs	409.64	Joback Method
dvisc	0.0003327	Paxs	443.54	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
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

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

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