2H-Pyran-2-methanol, tetrahydro-

Other names:	Tetrahydropyran-2-carbinol
	Tetrahydropyran-2-methanol
	Tetrahydropyranyl-2-methanol
	2-(Hydroxymethyl)tetrahydropyran
	Pyran-2-methanol, tetrahydro-
	2-Methanol, tetrahydropyran
	2-Methyloltetrahydro-1,4-pyran
	2-Tetrahydropyranilcarbinol
	Tetrahydro-2H-pyran-2-methanol
	NSC 5221
	tetrahydropyran-2-ylmethanol
Inchi:	InChI=1S/C6H12O2/c7-5-6-3-1-2-4-8-6/h6-7H,1-5H2
InchiKey:	ROTONRWJLXYJBD-UHFFFAOYSA-N
Formula:	C6H12O2
SMILES:	OCC1CCCCO1
Mol. weight [g/mol]:	116.16
CAS:	100-72-1

Physical Properties

Property code	Value	Unit	Source
gf	-198.85	kJ/mol	Joback Method
hf	-397.08	kJ/mol	Joback Method
hfus	15.20	kJ/mol	Joback Method
hvap	50.57	kJ/mol	Joback Method
log10ws	-0.69		Crippen Method
logp	0.548		Crippen Method
mcvol	96.280	ml/mol	McGowan Method
pc	4409.10	kPa	Joback Method
tb	460.35	K	NIST Webbook
tb	459.95	K	NIST Webbook
tb	460.20	K	NIST Webbook
tc	669.95	K	Joback Method
tf	252.15	K	Joback Method
vc	0.344	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.17	J/mol×K	669.95	Joback Method
cpg	273.61	J/mol×K	637.51	Joback Method
cpg	263.50	J/mol×K	605.08	Joback Method
cpg	252.81	J/mol×K	572.65	Joback Method
cpg	241.54	J/mol×K	540.22	Joback Method
cpg	229.67	J/mol×K	507.79	Joback Method
cpg	217.19	J/mol×K	475.36	Joback Method
cpl	222.00	J/mol×K	298.15	NIST Webbook
dvisc	0.0002250	Pa×s	475.36	Joback Method
dvisc	0.0003808	Pa×s	438.16	Joback Method
dvisc	0.0007107	Pa×s	400.96	Joback Method
dvisc	0.0015067	Pa×s	363.75	Joback Method
dvisc	0.0037910	Pa×s	326.55	Joback Method
dvisc	0.0120921	Pa×s	289.35	Joback Method
dvisc	0.0543129	Pa×s	252.15	Joback Method
hvapt	49.00	kJ/mol	402.00	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C100721&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
cpl: Liquid phase 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
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume