Tetrahydrofuran, 2-(2-hydroxyethoxy)

Other names: 2-(Tetrahydro-furan-2-yloxy)-ethanol
Inchi: InChI=1S/C6H12O3/c7-3-5-9-6-2-1-4-8-6/h6-7H,1-5H2
InchiKey: OJLQUVQAMKEDTB-UHFFFAOYSA-N
Formula: C6H12O3
SMILES: OCCOC1CCCO1
Mol. weight [g/mol]: 132.16

Physical Properties

Property code	Value	Unit	Source
gf	-291.75	kJ/mol	Joback Method
hf	-523.14	kJ/mol	Joback Method
hfus	18.49	kJ/mol	Joback Method
hvap	52.81	kJ/mol	Joback Method
log10ws	-0.27		Crippen Method
logp	0.132		Crippen Method
mcvol	102.150	ml/mol	McGowan Method
pc	4173.09	kPa	Joback Method
rinpol	1055.00		NIST Webbook
rinpol	1055.00		NIST Webbook
tb	493.51	K	Joback Method
tc	680.03	K	Joback Method
tf	277.90	K	Joback Method
vc	0.370	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	241.16	J/mol×K	493.51	Joback Method
cpg	252.58	J/mol×K	524.60	Joback Method
cpg	263.50	J/mol×K	555.68	Joback Method
cpg	273.91	J/mol×K	586.77	Joback Method
cpg	283.84	J/mol×K	617.85	Joback Method
cpg	293.28	J/mol×K	648.94	Joback Method
cpg	302.24	J/mol×K	680.03	Joback Method

dvisc	0.0186473	Pa×s	277.90	Joback Method
dvisc	0.0057513	Pa×s	313.83	Joback Method
dvisc	0.0022588	Pa×s	349.77	Joback Method
dvisc	0.0010559	Pa×s	385.70	Joback Method
dvisc	0.0005619	Pa×s	421.64	Joback Method
dvisc	0.0003302	Pa×s	457.57	Joback Method
dvisc	0.0002096	Pa×s	493.51	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91105&Units=SI

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