

2-hydroxy-5-ethyltetrahydrofuran

Inchi:	InChI=1S/C6H12O2/c1-2-5-3-4-6(7)8-5/h5-7H,2-4H2,1H3
InchiKey:	VPPOYUGGWUIGDG-UHFFFAOYSA-N
Formula:	C6H12O2
SMILES:	CCC1CCC(O)O1
Mol. weight [g/mol]:	116.16

Physical Properties

Property code	Value	Unit	Source
gf	-194.46	kJ/mol	Joback Method
hf	-411.26	kJ/mol	Joback Method
hfus	18.37	kJ/mol	Joback Method
hvap	50.09	kJ/mol	Joback Method
log10ws	-1.30		Crippen Method
logp	0.894		Crippen Method
mcvol	96.280	ml/mol	McGowan Method
pc	4088.15	kPa	Joback Method
ripol	1557.00		NIST Webbook
ripol	1557.00		NIST Webbook
tb	466.42	K	Joback Method
tc	653.58	K	Joback Method
tf	251.43	K	Joback Method
vc	0.351	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	218.95	J/molxK	466.42	Joback Method
cpg	230.92	J/molxK	497.61	Joback Method
cpg	242.33	J/molxK	528.81	Joback Method
cpg	253.21	J/molxK	560.00	Joback Method
cpg	263.57	J/molxK	591.19	Joback Method
cpg	273.41	J/molxK	622.39	Joback Method
cpg	282.76	J/molxK	653.58	Joback Method
dvisc	0.0277287	Paxs	251.43	Joback Method

dvisc	0.0080818	Paxs	287.26	Joback Method
dvisc	0.0030963	Paxs	323.09	Joback Method
dvisc	0.0014367	Paxs	358.93	Joback Method
dvisc	0.0007664	Paxs	394.76	Joback Method
dvisc	0.0004539	Paxs	430.59	Joback Method
dvisc	0.0002913	Paxs	466.42	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=R329283&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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