2-Ethoxytetrahydrofuran

Other names: Furan, 2-ethoxytetrahydro-
2-hydroxytetrahydrofuran
Inchi: InChI=1S/C6H12O2/c1-2-7-6-4-3-5-8-6/h6H,2-5H2,1H3
InchiKey: JQYYUWHWGCJWTN-UHFFFAOYSA-N
Formula: C6H12O2
SMILES: CCOC1CCCO1
Mol. weight [g/mol]: 116.16
CAS: 13436-46-9

Physical Properties

Property code	Value	Unit	Source
gf	-154.93	kJ/mol	Joback Method
hf	-370.91	kJ/mol	Joback Method
hfus	14.40	kJ/mol	Joback Method
hvap	36.13	kJ/mol	Joback Method
log10ws	-1.01		Crippen Method
logp	1.159		Crippen Method
mcvol	96.280	ml/mol	McGowan Method
pc	3718.02	kPa	Joback Method
rinpol	816.00		NIST Webbook
rinpol	823.00		NIST Webbook
rinpol	823.00		NIST Webbook
rinpol	790.00		NIST Webbook
rinpol	790.00		NIST Webbook
rinpol	790.00		NIST Webbook
tb	401.33	K	Joback Method
tc	597.33	K	Joback Method
tf	217.08	K	Joback Method
vc	0.351	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.55	J/mol×K	401.33	Joback Method

cpg	250.01	J/mol×K	564.66	Joback Method
cpg	238.99	J/mol×K	532.00	Joback Method
cpg	227.44	J/mol×K	499.33	Joback Method
cpg	215.35	J/mol×K	466.66	Joback Method
cpg	202.73	J/mol×K	434.00	Joback Method
cpg	260.51	J/mol×K	597.33	Joback Method
dvisc	0.0003294	Pa×s	401.33	Joback Method
dvisc	0.0004164	Pa×s	370.62	Joback Method
dvisc	0.0005491	Pa×s	339.91	Joback Method
dvisc	0.0007651	Pa×s	309.20	Joback Method
dvisc	0.0011470	Pa×s	278.50	Joback Method
dvisc	0.0019008	Pa×s	247.79	Joback Method
dvisc	0.0036343	Pa×s	217.08	Joback Method

Sources

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=C13436469&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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