Tetrahydrofuran, 2-ethenyloxy

Other names: 2-Vinyloxy-tetrahydro-furan
Inchi: InChI=1S/C6H10O2/c1-2-7-6-4-3-5-8-6/h2,6H,1,3-5H2
InchiKey: ZNYVTSYLHMCSSI-UHFFFAOYSA-N
Formula: C6H10O2
SMILES: C=COC1CCCO1
Mol. weight [g/mol]: 114.14

Physical Properties

Property code	Value	Unit	Source
gf	-67.09	kJ/mol	Joback Method
hf	-245.48	kJ/mol	Joback Method
hfus	13.12	kJ/mol	Joback Method
hvap	35.46	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	1.283		Crippen Method
mcvol	91.980	ml/mol	McGowan Method
pc	3916.03	kPa	Joback Method
rinpol	830.00		NIST Webbook
rinpol	830.00		NIST Webbook
rinpol	830.00		NIST Webbook
tb	398.01	K	Joback Method
tc	598.42	K	Joback Method
tf	215.32	K	Joback Method
vc	0.333	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	174.69	J/mol×K	398.01	Joback Method
cpg	187.21	J/mol×K	431.41	Joback Method
cpg	199.16	J/mol×K	464.81	Joback Method
cpg	210.54	J/mol×K	498.22	Joback Method
cpg	221.37	J/mol×K	531.62	Joback Method
cpg	231.65	J/mol×K	565.02	Joback Method

cpg	241.41	J/mol×K	598.42	Joback Method
dvisc	0.0031583	Pa×s	215.32	Joback Method
dvisc	0.0017063	Pa×s	245.77	Joback Method
dvisc	0.0010559	Pa×s	276.22	Joback Method
dvisc	0.0007187	Pa×s	306.66	Joback Method
dvisc	0.0005244	Pa×s	337.11	Joback Method
dvisc	0.0004032	Pa×s	367.56	Joback Method
dvisc	0.0003227	Pa×s	398.01	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R91137&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
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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