2H-Pyran, 2-ethoxytetrahydro-

Other names: 2-Ethoxyoxane
2-Ethoxytetrahydropyran
2-ethoxytetrahydro-2H-pyran
Inchi: InChI=1S/C7H14O2/c1-2-8-7-5-3-4-6-9-7/h7H,2-6H2,1H3
InchiKey: BTHLKLUTMYTDFM-UHFFFAOYSA-N
Formula: C7H14O2
SMILES: CCOC1CCCCO1
Mol. weight [g/mol]: 130.18
CAS: 4819-83-4

Physical Properties

Property code	Value	Unit	Source
gf	-158.61	kJ/mol	Joback Method
hf	-397.71	kJ/mol	Joback Method
hfus	14.89	kJ/mol	Joback Method
hvap	38.53	kJ/mol	Joback Method
log10ws	-1.43		Crippen Method
logp	1.550		Crippen Method
mcvol	110.370	ml/mol	McGowan Method
pc	3415.86	kPa	Joback Method
rinpol	914.00		NIST Webbook
rinpol	920.00		NIST Webbook
rinpol	920.00		NIST Webbook
rinpol	920.00		NIST Webbook
tb	428.48	K	Joback Method
tc	630.69	K	Joback Method
tf	224.83	K	Joback Method
vc	0.400	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.22	J/mol×K	428.48	Joback Method
cpg	243.61	J/mol×K	462.18	Joback Method

cpg	258.34	J/mol×K	495.88	Joback Method
cpg	272.43	J/mol×K	529.58	Joback Method
cpg	285.87	J/mol×K	563.28	Joback Method
cpg	298.67	J/mol×K	596.98	Joback Method
cpg	310.84	J/mol×K	630.69	Joback Method
dvisc	0.0060133	Pa×s	224.83	Joback Method
dvisc	0.0025916	Pa×s	258.77	Joback Method
dvisc	0.0013576	Pa×s	292.71	Joback Method
dvisc	0.0008135	Pa×s	326.65	Joback Method
dvisc	0.0005368	Pa×s	360.60	Joback Method
dvisc	0.0003805	Pa×s	394.54	Joback Method
dvisc	0.0002848	Pa×s	428.48	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=C4819834&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