2-propoxy-tetrahydro-furan

Other names: Tetrahydrofuran, 2-propyloxy
Inchi: InChI=1S/C7H14O2/c1-2-5-8-7-4-3-6-9-7/h7H,2-6H2,1H3
InchiKey: OHNPPRNQKABHPI-UHFFFAOYSA-N
Formula: C7H14O2
SMILES: CCCOC1CCCO1
Mol. weight [g/mol]: 130.18

Physical Properties

Property code	Value	Unit	Source
gf	-146.51	kJ/mol	Joback Method
hf	-391.55	kJ/mol	Joback Method
hfus	16.99	kJ/mol	Joback Method
hvap	38.35	kJ/mol	Joback Method
log10ws	-1.43		Crippen Method
logp	1.550		Crippen Method
mcvol	110.370	ml/mol	McGowan Method
pc	3318.18	kPa	Joback Method
rinpol	900.00		NIST Webbook
rinpol	900.00		NIST Webbook
tb	424.21	K	Joback Method
tc	618.47	K	Joback Method
tf	228.35	K	Joback Method
vc	0.407	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.35	J/mol×K	424.21	Joback Method
cpg	295.43	J/mol×K	586.09	Joback Method
cpg	283.41	J/mol×K	553.71	Joback Method
cpg	270.80	J/mol×K	521.34	Joback Method
cpg	257.59	J/mol×K	488.96	Joback Method
cpg	243.78	J/mol×K	456.59	Joback Method
cpg	306.88	J/mol×K	618.47	Joback Method

dvisc	0.0003243	Pa×s	424.21	Joback Method
dvisc	0.0004129	Pa×s	391.57	Joback Method
dvisc	0.0005494	Pa×s	358.92	Joback Method
dvisc	0.0007739	Pa×s	326.28	Joback Method
dvisc	0.0011766	Pa×s	293.64	Joback Method
dvisc	0.0019863	Pa×s	260.99	Joback Method
dvisc	0.0038949	Pa×s	228.35	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=R91141&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

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