2-Propoxy-tetrahydropyran

Inchi: InChI=1S/C8H16O2/c1-2-6-9-8-5-3-4-7-10-8/h8H,2-7H2,1H3
InchiKey: FSQXTURTITWAAE-UHFFFAOYSA-N
Formula: C8H16O2
SMILES: CCCOC1CCCCO1
Mol. weight [g/mol]: 144.21
CAS: 6581-64-2

Physical Properties

Property code	Value	Unit	Source
gf	-150.19	kJ/mol	Joback Method
hf	-418.35	kJ/mol	Joback Method
hfus	17.48	kJ/mol	Joback Method
hvap	40.75	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	1.940		Crippen Method
mcvol	124.460	ml/mol	McGowan Method
pc	3062.55	kPa	Joback Method
rinpol	1005.00		NIST Webbook
rinpol	1005.00		NIST Webbook
tb	451.36	K	Joback Method
tc	651.27	K	Joback Method
tf	236.10	K	Joback Method
vc	0.456	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.72	J/mol×K	451.36	Joback Method
cpg	287.23	J/mol×K	484.68	Joback Method
cpg	303.02	J/mol×K	518.00	Joback Method
cpg	318.10	J/mol×K	551.32	Joback Method
cpg	332.47	J/mol×K	584.64	Joback Method
cpg	346.15	J/mol×K	617.95	Joback Method
cpg	359.13	J/mol×K	651.27	Joback Method

dvisc	0.0059882	Pa×s	236.10	Joback Method
dvisc	0.0025373	Pa×s	271.98	Joback Method
dvisc	0.0013133	Pa×s	307.85	Joback Method
dvisc	0.0007799	Pa×s	343.73	Joback Method
dvisc	0.0005111	Pa×s	379.61	Joback Method
dvisc	0.0003603	Pa×s	415.48	Joback Method
dvisc	0.0002685	Pa×s	451.36	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6581642&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