2-Isopropoxy-tetrahydro-furan

Other names: Tetrahydrofuran, 2-(1-methylethyloxy)
Inchi: InChI=1S/C7H14O2/c1-6(2)9-7-4-3-5-8-7/h6-7H,3-5H2,1-2H3
InchiKey: OGAUHPGWQSCXSW-UHFFFAOYSA-N
Formula: C7H14O2
SMILES: CC(C)OC1CCCO1
Mol. weight [g/mol]: 130.18

Physical Properties

Property code	Value	Unit	Source
gf	-148.95	kJ/mol	Joback Method
hf	-396.83	kJ/mol	Joback Method
hfus	13.46	kJ/mol	Joback Method
hvap	37.97	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	1.548		Crippen Method
mcvol	110.370	ml/mol	McGowan Method
pc	3348.98	kPa	Joback Method
rinpol	830.00		NIST Webbook
rinpol	830.00		NIST Webbook
tb	423.77	K	Joback Method
tc	622.67	K	Joback Method
tf	213.35	K	Joback Method
vc	0.402	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.36	J/mol×K	423.77	Joback Method
cpg	244.23	J/mol×K	456.92	Joback Method
cpg	258.44	J/mol×K	490.07	Joback Method
cpg	272.01	J/mol×K	523.22	Joback Method
cpg	284.95	J/mol×K	556.37	Joback Method
cpg	297.27	J/mol×K	589.52	Joback Method
cpg	308.97	J/mol×K	622.67	Joback Method

dvisc	0.0059385	Pa×s	213.35	Joback Method
dvisc	0.0025675	Pa×s	248.42	Joback Method
dvisc	0.0013660	Pa×s	283.49	Joback Method
dvisc	0.0008351	Pa×s	318.56	Joback Method
dvisc	0.0005628	Pa×s	353.63	Joback Method
dvisc	0.0004074	Pa×s	388.70	Joback Method
dvisc	0.0003110	Pa×s	423.77	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=R91070&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