Tetrahydrofuran, 2-propyl-

Other names: 2-Propyl-tetrahydrofuran
Inchi: InChI=1S/C7H14O/c1-2-4-7-5-3-6-8-7/h7H,2-6H2,1H3
InchiKey: DTGZORBDGLEVNY-UHFFFAOYSA-N
Formula: C7H14O
SMILES: CCCC1CCCO1
Mol. weight [g/mol]: 114.19
CAS: 3208-22-8

Physical Properties

Property code	Value	Unit	Source
gf	-41.51	kJ/mol	Joback Method
hf	-259.33	kJ/mol	Joback Method
hfus	15.80	kJ/mol	Joback Method
hvap	35.94	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	1.965		Crippen Method
mcvol	104.500	ml/mol	McGowan Method
pc	3384.14	kPa	Joback Method
rinpol	867.00		NIST Webbook
tb	401.79	K	Joback Method
tc	596.60	K	Joback Method
tf	206.12	K	Joback Method
vc	0.390	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.52	J/mol×K	401.79	Joback Method
cpg	272.01	J/mol×K	564.13	Joback Method
cpg	259.84	J/mol×K	531.66	Joback Method
cpg	247.03	J/mol×K	499.19	Joback Method
cpg	233.56	J/mol×K	466.73	Joback Method
cpg	219.39	J/mol×K	434.26	Joback Method
cpg	283.55	J/mol×K	596.60	Joback Method

dvisc	0.0003630	Pa×s	401.79	Joback Method
dvisc	0.0004630	Pa×s	369.18	Joback Method
dvisc	0.0006192	Pa×s	336.57	Joback Method
dvisc	0.0008813	Pa×s	303.95	Joback Method
dvisc	0.0013655	Pa×s	271.34	Joback Method
dvisc	0.0023845	Pa×s	238.73	Joback Method
dvisc	0.0049672	Pa×s	206.12	Joback Method

Sources

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=C3208228&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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