Furan, tetrahydro-2-(methoxymethyl)-

Other names:	2-(Methoxymethyl)tetrahydrofuran
	Methyl tetrahydrofurfuryl ether
	Tetrahydrofurfuryl methyl ether
Inchi:	InChI=1S/C6H12O2/c1-7-5-6-3-2-4-8-6/h6H,2-5H2,1H3
InchiKey:	IEOPZUMPHCZMCS-UHFFFAOYSA-N
Formula:	C6H12O2
SMILES:	COCC1CCCO1
Mol. weight [g/mol]:	116.16
CAS:	19354-27-9

Physical Properties

Property code	Value	Unit	Source
gf	-154.93	kJ/mol	Joback Method
hf	-370.91	kJ/mol	Joback Method
hfus	14.40	kJ/mol	Joback Method
hvap	36.13	kJ/mol	Joback Method
log10ws	-0.52		Crippen Method
logp	0.812		Crippen Method
mcvol	96.280	ml/mol	McGowan Method
pc	3718.02	kPa	Joback Method
tb	413.20	K	NIST Webbook
tc	597.33	K	Joback Method
tf	217.08	K	Joback Method
vc	0.351	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.55	J/mol×K	401.33	Joback Method
cpg	250.01	J/mol×K	564.66	Joback Method
cpg	238.99	J/mol×K	532.00	Joback Method
cpg	227.44	J/mol×K	499.33	Joback Method
cpg	215.35	J/mol×K	466.66	Joback Method
cpg	202.73	J/mol×K	434.00	Joback Method

cpg	260.51	J/mol×K	597.33	Joback Method
dvisc	0.0003294	Pa×s	401.33	Joback Method
dvisc	0.0004164	Pa×s	370.62	Joback Method
dvisc	0.0005491	Pa×s	339.91	Joback Method
dvisc	0.0007651	Pa×s	309.20	Joback Method
dvisc	0.0011470	Pa×s	278.50	Joback Method
dvisc	0.0019008	Pa×s	247.79	Joback Method
dvisc	0.0036343	Pa×s	217.08	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=C19354279&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume