Furan, 2,3-dihydro-5-methyl-

Other names:	2-Methyl-4,5-dihydrofuran
	2,3-Dihydro-5-methylfuran
	4,5-Dihydro-2-methylfuran
	5-Methyl-2,3-dihydrofuran
	4,5-Dihydrosylvan
Inchi:	InChI=1S/C5H8O/c1-5-3-2-4-6-5/h3H,2,4H2,1H3
InchiKey:	BGCWDXXJMUHZHE-UHFFFAOYSA-N
Formula:	C5H8O
SMILES:	CC1=CCCO1
Mol. weight [g/mol]:	84.12
CAS:	1487-15-6

Physical Properties

Property code	Value	Unit	Source
affp	910.30	kJ/mol	NIST Webbook
basg	877.90	kJ/mol	NIST Webbook
chl	-2945.90 ± 2.30	kJ/mol	NIST Webbook
gf	-30.31	kJ/mol	Joback Method
hf	-122.60	kJ/mol	NIST Webbook
hf	-130.20 ± 3.50	kJ/mol	NIST Webbook
hfl	-165.00 ± 2.30	kJ/mol	NIST Webbook
hfus	10.38	kJ/mol	Joback Method
hvap	35.00 ± 1.00	kJ/mol	NIST Webbook
hvap	34.80	kJ/mol	NIST Webbook
log10ws	-1.25		Crippen Method
logp	1.310		Crippen Method
mcvol	72.020	ml/mol	McGowan Method
pc	4608.87	kPa	Joback Method
rinpol	662.00		NIST Webbook
rinpol	640.00		NIST Webbook
rinpol	640.00		NIST Webbook
rinpol	677.00		NIST Webbook
tb	355.20	K	NIST Webbook
tb	354.65 ± 1.50	K	NIST Webbook
tc	566.81	K	Joback Method
tf	201.10	K	Joback Method
vc	0.265	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	119.80	J/mol×K	364.84	Joback Method
cpg	129.86	J/mol×K	398.50	Joback Method
cpg	139.39	J/mol×K	432.16	Joback Method
cpg	148.41	J/mol×K	465.83	Joback Method
cpg	156.94	J/mol×K	499.49	Joback Method
cpg	165.00	J/mol×K	533.15	Joback Method
cpg	172.61	J/mol×K	566.81	Joback Method
dvisc	0.0031597	Pa×s	201.10	Joback Method
dvisc	0.0017240	Pa×s	228.39	Joback Method
dvisc	0.0010705	Pa×s	255.68	Joback Method
dvisc	0.0007287	Pa×s	282.97	Joback Method
dvisc	0.0005307	Pa×s	310.26	Joback Method
dvisc	0.0004069	Pa×s	337.55	Joback Method
dvisc	0.0003246	Pa×s	364.84	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1487156&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

affp: Proton affinity
basg: Gas basicity
chl: Standard liquid enthalpy of combustion
cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation

hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase 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