3-Furanol, tetrahydro-

Other names:	3-Hydroxytetrahydrofuran
	Tetrahydro-3-furanol
	Tetrahydrofuran, 3-hydroxy-
	tetrahydrofuran-3-ol
Inchi:	InChI=1S/C4H8O2/c5-4-1-2-6-3-4/h4-5H,1-3H2
InchiKey:	XDPCNPCKDGQBAN-UHFFFAOYSA-N
Formula:	C4H8O2
SMILES:	OC1CCOC1
Mol. weight [g/mol]:	88.11
CAS:	453-20-3

Physical Properties

Property code	Value	Unit	Source
gf	-203.59	kJ/mol	Joback Method
hf	-349.64	kJ/mol	Joback Method
hfus	12.12	kJ/mol	Joback Method
hvap	45.94	kJ/mol	Joback Method
ie	9.77	eV	NIST Webbook
log10ws	1.05		Aqueous Solubility Prediction Method
logp	-0.232		Crippen Method
mcvol	68.100	ml/mol	McGowan Method
pc	5577.49	kPa	Joback Method
ripol	1619.00		NIST Webbook
tb	454.20	K	NIST Webbook
tc	616.61	K	Joback Method
tf	233.13	K	Joback Method
vc	0.240	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	138.66	J/mol×K	425.33	Joback Method
cpg	148.01	J/mol×K	457.21	Joback Method

cpg	156.90	J/mol×K	489.09	Joback Method
cpg	165.32	J/mol×K	520.97	Joback Method
cpg	173.31	J/mol×K	552.85	Joback Method
cpg	180.87	J/mol×K	584.73	Joback Method
cpg	188.01	J/mol×K	616.61	Joback Method
dvisc	0.0517048	Pa×s	233.13	Joback Method
dvisc	0.0138328	Pa×s	265.16	Joback Method
dvisc	0.0049173	Pa×s	297.20	Joback Method
dvisc	0.0021377	Pa×s	329.23	Joback Method
dvisc	0.0010773	Pa×s	361.26	Joback Method
dvisc	0.0006070	Pa×s	393.30	Joback Method
dvisc	0.0003729	Pa×s	425.33	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C453203&Units=SI

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

ie: Ionization energy

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume

pc: Critical Pressure

ripol: Polar retention indices

tb: Normal Boiling Point Temperature

tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume