2-Furanol, tetrahydro-2-methyl-

Inchi: InChI=1S/C5H10O2/c1-5(6)3-2-4-7-5/h6H,2-4H2,1H3
InchiKey: WBESQMVRIKXRFL-UHFFFAOYSA-N
Formula: C5H10O2
SMILES: CC1(O)CCCO1
Mol. weight [g/mol]: 102.13
CAS: 7326-46-7

Physical Properties

Property code	Value	Unit	Source
gf	-200.66	kJ/mol	Joback Method
hf	-355.04	kJ/mol	Joback Method
hfus	8.41	kJ/mol	Joback Method
hvap	47.02	kJ/mol	Joback Method
log10ws	-0.77		Crippen Method
logp	0.505		Crippen Method
mcvol	82.190	ml/mol	McGowan Method
pc	5175.72	kPa	Joback Method
tb	448.45	K	Joback Method
tc	646.09	K	Joback Method
tf	268.30	K	Joback Method
vc	0.294	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	178.00	J/mol×K	448.45	Joback Method
cpg	188.69	J/mol×K	481.39	Joback Method
cpg	198.59	J/mol×K	514.33	Joback Method
cpg	207.78	J/mol×K	547.27	Joback Method
cpg	216.34	J/mol×K	580.21	Joback Method
cpg	224.35	J/mol×K	613.15	Joback Method
cpg	231.90	J/mol×K	646.09	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7326467&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

cpg:	Ideal gas heat capacity
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

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