2H-Pyran

Inchi: InChI=1S/C5H6O/c1-2-4-6-5-3-1/h1-4H,5H2
InchiKey: MGADZUXDNSDTHW-UHFFFAOYSA-N
Formula: C5H6O
SMILES: C1=CCOC=C1
Mol. weight [g/mol]: 82.10

Physical Properties

Property code	Value	Unit	Source
gf	-2.82	kJ/mol	Joback Method
hf	-88.31	kJ/mol	Joback Method
hfus	9.89	kJ/mol	Joback Method
hvap	32.56	kJ/mol	Joback Method
log10ws	-1.10		Crippen Method
logp	1.087		Crippen Method
mcvol	67.720	ml/mol	McGowan Method
pc	5123.98	kPa	Joback Method
ripol	1775.00		NIST Webbook
ripol	1775.00		NIST Webbook
tb	363.29	K	Joback Method
tc	574.83	K	Joback Method
tf	185.82	K	Joback Method
vc	0.242	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	104.38	J/mol×K	363.29	Joback Method
cpg	114.49	J/mol×K	398.55	Joback Method
cpg	123.99	J/mol×K	433.80	Joback Method
cpg	132.92	J/mol×K	469.06	Joback Method
cpg	141.29	J/mol×K	504.32	Joback Method
cpg	149.12	J/mol×K	539.58	Joback Method
cpg	156.44	J/mol×K	574.83	Joback Method
dvisc	0.0070354	Pa×s	185.82	Joback Method

dvisc	0.0029231	Pa×s	215.40	Joback Method
dvisc	0.0015014	Pa×s	244.98	Joback Method
dvisc	0.0008902	Pa×s	274.55	Joback Method
dvisc	0.0005843	Pa×s	304.13	Joback Method
dvisc	0.0004133	Pa×s	333.71	Joback Method
dvisc	0.0003092	Pa×s	363.29	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R557290&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

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume