

5,6-Dihydro-4-methoxy-2H-pyran

Other names:	2H-Pyran, 3,6-dihydro-4-methoxy- 3,6-dihydro-4-methoxy-2H-pyran
Inchi:	InChI=1S/C6H10O2/c1-7-6-2-4-8-5-3-6/h2H,3-5H2,1H3
InchiKey:	FSMHNRHLQAABPS-UHFFFAOYSA-N
Formula:	C6H10O2
SMILES:	COC1=CCOCC1
Mol. weight [g/mol]:	114.14
CAS:	17327-22-9

Physical Properties

Property code	Value	Unit	Source
gf	-138.99	kJ/mol	Joback Method
hf	-310.42	kJ/mol	Joback Method
hfus	12.06	kJ/mol	Joback Method
hvap	37.56	kJ/mol	Joback Method
log10ws	-0.75		Crippen Method
logp	0.937		Crippen Method
mvol	91.980	ml/mol	McGowan Method
pc	4103.88	kPa	Joback Method
tb	414.41	K	Joback Method
tc	622.94	K	Joback Method
tf	231.08	K	Joback Method
vc	0.331	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	175.61	J/molxK	414.41	Joback Method
cpg	187.63	J/molxK	449.16	Joback Method
cpg	199.14	J/molxK	483.92	Joback Method
cpg	210.13	J/molxK	518.67	Joback Method
cpg	220.60	J/molxK	553.43	Joback Method
cpg	230.57	J/molxK	588.18	Joback Method
cpg	240.02	J/molxK	622.94	Joback Method

dvisc	0.0043626	Paxs	231.08	Joback Method
dvisc	0.0020972	Paxs	261.63	Joback Method
dvisc	0.0011751	Paxs	292.19	Joback Method
dvisc	0.0007347	Paxs	322.75	Joback Method
dvisc	0.0004983	Paxs	353.30	Joback Method
dvisc	0.0003595	Paxs	383.86	Joback Method
dvisc	0.0002721	Paxs	414.41	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	332.20	K	2.70	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C17327229&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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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