

3,6-dihydro-4-methyl-2H-pyran

Inchi:	InChI=1S/C6H10O/c1-6-2-4-7-5-3-6/h2H,3-5H2,1H3
InchiKey:	PQGPYWUIWWYUGU-UHFFFAOYSA-N
Formula:	C6H10O
SMILES:	CC1=CCOCC1
Mol. weight [g/mol]:	98.14
CAS:	16302-35-5

Physical Properties

Property code	Value	Unit	Source
gf	-33.99	kJ/mol	Joback Method
hf	-178.20	kJ/mol	Joback Method
hfus	10.87	kJ/mol	Joback Method
hvap	35.15	kJ/mol	Joback Method
ie	8.88	eV	NIST Webbook
log10ws	-1.17		Crippen Method
logp	1.353		Crippen Method
mcvol	86.110	ml/mol	McGowan Method
pc	4194.74	kPa	Joback Method
tb	391.99	K	Joback Method
tc	601.31	K	Joback Method
tf	208.85	K	Joback Method
vc	0.312	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	153.09	J/molxK	391.99	Joback Method
cpg	165.50	J/molxK	426.88	Joback Method
cpg	177.28	J/molxK	461.76	Joback Method
cpg	188.45	J/molxK	496.65	Joback Method
cpg	199.03	J/molxK	531.54	Joback Method
cpg	209.03	J/molxK	566.43	Joback Method
cpg	218.48	J/molxK	601.31	Joback Method
dvisc	0.0059957	Paxs	208.85	Joback Method

dvisc	0.0026664	Paxs	239.37	Joback Method
dvisc	0.0014243	Paxs	269.90	Joback Method
dvisc	0.0008642	Paxs	300.42	Joback Method
dvisc	0.0005750	Paxs	330.94	Joback Method
dvisc	0.0004098	Paxs	361.47	Joback Method
dvisc	0.0003079	Paxs	391.99	Joback Method

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=C16302355&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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