

4-Hexen-3-one, 5-hydroxy-

Inchi:	InChI=1S/C6H10O2/c1-3-6(8)4-5(2)7/h4,7H,3H2,1-2H3/b5-4-
InchiKey:	VGWFDUZMKAWCNX-PLNGDYQASA-N
Formula:	C6H10O2
SMILES:	CCC(=O)C=C(C)O
Mol. weight [g/mol]:	114.14
CAS:	34136-00-0

Physical Properties

Property code	Value	Unit	Source
gf	-194.43	kJ/mol	Joback Method
hf	-324.55	kJ/mol	Joback Method
hfus	15.88	kJ/mol	Joback Method
hvap	52.41	kJ/mol	Joback Method
log10ws	-1.29		Crippen Method
logp	1.427		Crippen Method
mcvol	98.540	ml/mol	McGowan Method
pc	3995.65	kPa	Joback Method
tb	486.77	K	Joback Method
tc	669.02	K	Joback Method
tf	249.09	K	Joback Method
vc	0.378	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	205.98	J/molxK	486.77	Joback Method
cpg	214.52	J/molxK	517.15	Joback Method
cpg	222.63	J/molxK	547.52	Joback Method
cpg	230.34	J/molxK	577.90	Joback Method
cpg	237.66	J/molxK	608.27	Joback Method
cpg	244.62	J/molxK	638.65	Joback Method
cpg	251.22	J/molxK	669.02	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C34136000&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
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	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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