1-Hexene, 1-chloro-

Other names: 1-chloro-1-hexene
Inchi: InChI=1S/C6H11Cl/c1-2-3-4-5-6-7/h5-6H,2-4H2,1H3/b6-5+
InchiKey: UZIBPOIXTCIHBH-AATRIKPKSA-N
Formula: C6H11Cl
SMILES: CCCCC=CCl
Mol. weight [g/mol]: 118.61
CAS: 22922-67-4

Physical Properties

Property code	Value	Unit	Source
gf	67.93	kJ/mol	Joback Method
hf	-65.69	kJ/mol	Joback Method
hfus	15.69	kJ/mol	Joback Method
hvap	33.29	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.929		Crippen Method
mcvol	103.340	ml/mol	McGowan Method
pc	3159.72	kPa	Joback Method
rinpol	788.00		NIST Webbook
rinpol	788.00		NIST Webbook
tb	378.27	K	Joback Method
tc	559.67	K	Joback Method
tf	182.22	K	Joback Method
vc	0.401	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	171.44	J/mol×K	378.27	Joback Method
cpg	181.56	J/mol×K	408.50	Joback Method
cpg	191.20	J/mol×K	438.74	Joback Method
cpg	200.37	J/mol×K	468.97	Joback Method
cpg	209.10	J/mol×K	499.20	Joback Method
cpg	217.41	J/mol×K	529.44	Joback Method

cpg	225.31	J/mol×K	559.67	Joback Method
dvisc	0.0043993	Pa×s	182.22	Joback Method
dvisc	0.0018736	Pa×s	214.89	Joback Method
dvisc	0.0009996	Pa×s	247.57	Joback Method
dvisc	0.0006174	Pa×s	280.25	Joback Method
dvisc	0.0004217	Pa×s	312.92	Joback Method
dvisc	0.0003096	Pa×s	345.60	Joback Method
dvisc	0.0002398	Pa×s	378.27	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.37769e+01
Coeff. B	-3.27246e+03
Coeff. C	-5.07240e+01
Temperature range (K), min.	293.32
Temperature range (K), max.	437.29

Sources

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=C22922674&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume