

1-Hexene, 6-chloro-

Other names:	6-Chloro-1-hexene 6-Chlorohex-1-ene
Inchi:	InChI=1S/C6H11Cl/c1-2-3-4-5-6-7/h2H,1,3-6H2
InchiKey:	BLMIXWDJHNJWDT-UHFFFAOYSA-N
Formula:	C6H11Cl
SMILES:	C=CCCCCl
Mol. weight [g/mol]:	118.61
CAS:	928-89-2

Physical Properties

Property code	Value	Unit	Source
gf	75.55	kJ/mol	Joback Method
hf	-57.48	kJ/mol	Joback Method
hfus	14.21	kJ/mol	Joback Method
hvap	32.67	kJ/mol	Joback Method
log10ws	-2.34		Crippen Method
logp	2.582		Crippen Method
mvol	103.340	ml/mol	McGowan Method
pc	3124.49	kPa	Joback Method
rinpol	869.00		NIST Webbook
rinpol	869.00		NIST Webbook
tb	370.79	K	Joback Method
tc	546.67	K	Joback Method
tf	185.54	K	Joback Method
vc	0.402	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	172.06	J/mol×K	370.79	Joback Method
cpg	216.77	J/mol×K	517.35	Joback Method
cpg	208.61	J/mol×K	488.04	Joback Method
cpg	200.07	J/mol×K	458.73	Joback Method
cpg	191.14	J/mol×K	429.42	Joback Method

cpg	181.81	J/mol×K	400.10	Joback Method
cpg	224.57	J/mol×K	546.67	Joback Method
dvisc	0.0002830	Paxs	370.79	Joback Method
dvisc	0.0003600	Paxs	339.91	Joback Method
dvisc	0.0004803	Paxs	309.04	Joback Method
dvisc	0.0006834	Paxs	278.16	Joback Method
dvisc	0.0010617	Paxs	247.29	Joback Method
dvisc	0.0018703	Paxs	216.42	Joback Method
dvisc	0.0039783	Paxs	185.54	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.38357e+01
Coeff. B	-3.29167e+03
Coeff. C	-5.09180e+01
Temperature range (K), min.	293.88
Temperature range (K), max.	437.07

Sources

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=C928892&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/ci9903071

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

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