1-Hexene, 2-chloro-

Other names: 2-chloro-1-hexene
Inchi: InChI=1S/C6H11Cl/c1-3-4-5-6(2)7/h2-5H2,1H3
InchiKey: OQANCOWYULDETR-UHFFFAOYSA-N
Formula: C6H11Cl
SMILES: C=C(Cl)CCCC
Mol. weight [g/mol]: 118.61
CAS: 10124-73-9

Physical Properties

Property code	Value	Unit	Source
gf	67.00	kJ/mol	Joback Method
hf	-67.27	kJ/mol	Joback Method
hfus	12.90	kJ/mol	Joback Method
hvap	32.75	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.929		Crippen Method
mcvol	103.340	ml/mol	McGowan Method
pc	3142.03	kPa	Joback Method
rinpol	747.00		NIST Webbook
rinpol	747.00		NIST Webbook
tb	370.67	K	Joback Method
tc	550.14	K	Joback Method
tf	171.58	K	Joback Method
vc	0.403	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	172.07	J/mol×K	370.67	Joback Method
cpg	181.99	J/mol×K	400.58	Joback Method
cpg	191.47	J/mol×K	430.49	Joback Method
cpg	200.53	J/mol×K	460.41	Joback Method
cpg	209.19	J/mol×K	490.32	Joback Method
cpg	217.45	J/mol×K	520.23	Joback Method

cpg	225.34	J/mol×K	550.14	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.31436e+01
Coeff. B	-3.06514e+03
Coeff. C	-4.85000e+01
Temperature range (K), min.	286.92
Temperature range (K), max.	439.85

Sources

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

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C10124739&Units=SI

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

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
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