

# Hexane, 2-chloro-

<b>Other names:</b>	2-Chlorohexane 2-Hexyl chloride
<b>Inchi:</b>	InChI=1S/C6H13Cl/c1-3-4-5-6(2)7/h6H,3-5H2,1-2H3
<b>InchiKey:</b>	GLCIPJOIEVLTTPR-UHFFFAOYSA-N
<b>Formula:</b>	C6H13Cl
<b>SMILES:</b>	CCCCC(C)Cl
<b>Mol. weight [g/mol]:</b>	120.62
<b>CAS:</b>	638-28-8

## Physical Properties

Property code	Value	Unit	Source
gf	-14.73	kJ/mol	Joback Method
hf	-188.19	kJ/mol	Joback Method
hfus	11.97	kJ/mol	Joback Method
hvap	43.82 ± 0.06	kJ/mol	NIST Webbook
log10ws	-2.60		Crippen Method
logp	2.804		Crippen Method
mcvol	107.640	ml/mol	McGowan Method
pc	3009.03	kPa	Joback Method
ripol	809.00		NIST Webbook
ripol	809.00		NIST Webbook
ripol	809.00		NIST Webbook
ripol	796.00		NIST Webbook
ripol	978.00		NIST Webbook
ripol	959.00		NIST Webbook
ripol	959.00		NIST Webbook
ripol	969.00		NIST Webbook
ripol	967.00		NIST Webbook
tb	399.15 ± 3.00	K	NIST Webbook
tb	395.00 ± 6.00	K	NIST Webbook
tb	396.15 ± 3.00	K	NIST Webbook
tb	396.65 ± 4.00	K	NIST Webbook
tc	550.01	K	Joback Method
tf	172.30	K	Joback Method
vc	0.414	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	185.85	J/molxK	373.67	Joback Method
cpg	196.56	J/molxK	403.06	Joback Method
cpg	206.84	J/molxK	432.45	Joback Method
cpg	216.72	J/molxK	461.84	Joback Method
cpg	226.20	J/molxK	491.23	Joback Method
cpg	235.29	J/molxK	520.62	Joback Method
cpg	244.00	J/molxK	550.01	Joback Method
dvisc	0.0084225	Paxs	172.30	Joback Method
dvisc	0.0030184	Paxs	205.86	Joback Method
dvisc	0.0014423	Paxs	239.42	Joback Method
dvisc	0.0008264	Paxs	272.99	Joback Method
dvisc	0.0005349	Paxs	306.55	Joback Method
dvisc	0.0003773	Paxs	340.11	Joback Method
dvisc	0.0002833	Paxs	373.67	Joback Method
hvapt	40.90	kJ/mol	349.50	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.48776e+01
Coeff. B	-3.60611e+03
Coeff. C	-5.15580e+01
Temperature range (K), min.	298.72
Temperature range (K), max.	428.52

## Sources

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/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=C638288&Units=SI>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>pvap:</b>	Vapor pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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