

# Hexane, 2,2-dichloro-

<b>Other names:</b>	2,2-dichlorohexane
<b>Inchi:</b>	InChI=1S/C6H12Cl2/c1-3-4-5-6(2,7)8/h3-5H2,1-2H3
<b>InchiKey:</b>	SJDNOQZXJRUKDE-UHFFFAOYSA-N
<b>Formula:</b>	C6H12Cl2
<b>SMILES:</b>	CCCCC(C)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	155.06
<b>CAS:</b>	42131-89-5

## Physical Properties

Property code	Value	Unit	Source
gf	-21.38	kJ/mol	Joback Method
hf	-207.40	kJ/mol	Joback Method
hfus	12.28	kJ/mol	Joback Method
hvap	36.42	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	3.370		Crippen Method
mcvol	119.880	ml/mol	McGowan Method
pc	2925.00	kPa	Joback Method
rinpol	925.00		NIST Webbook
rinpol	924.00		NIST Webbook
rinpol	925.00		NIST Webbook
rinpol	925.00		NIST Webbook
ripol	1136.00		NIST Webbook
ripol	1136.00		NIST Webbook
tb	408.31	K	Joback Method
tc	600.47	K	Joback Method
tf	219.64	K	Joback Method
vc	0.459	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	214.29	J/molxK	408.31	Joback Method
cpg	225.73	J/molxK	440.34	Joback Method

cpg	236.52	J/molxK	472.36	Joback Method
cpg	246.68	J/molxK	504.39	Joback Method
cpg	256.26	J/molxK	536.42	Joback Method
cpg	265.28	J/molxK	568.45	Joback Method
cpg	273.76	J/molxK	600.47	Joback Method
dvisc	0.0076476	Paxs	219.64	Joback Method
dvisc	0.0033292	Paxs	251.09	Joback Method
dvisc	0.0017440	Paxs	282.53	Joback Method
dvisc	0.0010399	Paxs	313.98	Joback Method
dvisc	0.0006813	Paxs	345.42	Joback Method
dvisc	0.0004790	Paxs	376.87	Joback Method
dvisc	0.0003555	Paxs	408.31	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.52901e+01
Coeff. B	-4.08460e+03
Coeff. C	-6.54580e+01
Temperature range (K), min.	337.72
Temperature range (K), max.	474.79

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C42131895&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C42131895&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

**cpg:** 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>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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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