

# Methane, chlorodiiodo-

<b>Other names:</b>	Chlorodiodomethane
<b>Inchi:</b>	InChI=1S/CHClI2/c2-1(3)4/h1H
<b>InchiKey:</b>	RYPFDEIVUZVDCE-UHFFFAOYSA-N
<b>Formula:</b>	CHClI2
<b>SMILES:</b>	CIC(I)I
<b>Mol. weight [g/mol]:</b>	302.28
<b>CAS:</b>	638-73-3

## Physical Properties

Property code	Value	Unit	Source
gf	59.41	kJ/mol	Joback Method
hf	68.75	kJ/mol	Joback Method
hfus	7.83	kJ/mol	Joback Method
hvap	40.56	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	2.379		Crippen Method
mcvol	88.830	ml/mol	McGowan Method
pc	5198.13	kPa	Joback Method
tb	445.55	K	Joback Method
tc	716.96	K	Joback Method
tf	232.07	K	Joback Method
vc	0.310	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	85.80	J/mol×K	445.55	Joback Method
cpg	87.83	J/mol×K	490.79	Joback Method
cpg	89.50	J/mol×K	536.02	Joback Method
cpg	90.88	J/mol×K	581.26	Joback Method
cpg	92.00	J/mol×K	626.49	Joback Method
cpg	92.92	J/mol×K	671.73	Joback Method
cpg	93.69	J/mol×K	716.96	Joback Method
dvisc	0.0077662	Paxs	232.07	Joback Method

dvisc	0.0036365	Paxs	267.65	Joback Method
dvisc	0.0020347	Paxs	303.23	Joback Method
dvisc	0.0012861	Paxs	338.81	Joback Method
dvisc	0.0008870	Paxs	374.39	Joback Method
dvisc	0.0006525	Paxs	409.97	Joback Method
dvisc	0.0005041	Paxs	445.55	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<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=C638733&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C638733&amp;Units=SI</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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