

# Benzene, 4-chloro-2-iodo-1-methyl-

Inchi:	InChI=1S/C7H6ClI/c1-5-2-3-6(8)4-7(5)9/h2-4H,1H3
InchiKey:	ZIOGCI PQDRCAKY-UHFFFAOYSA-N
Formula:	C7H6ClI
SMILES:	Cc1ccc(Cl)cc1I
Mol. weight [g/mol]:	252.48
CAS:	33184-48-4

## Physical Properties

Property code	Value	Unit	Source
gf	147.40	kJ/mol	Joback Method
hf	86.91	kJ/mol	Joback Method
hfus	15.75	kJ/mol	Joback Method
hvap	48.53	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	3.253		Crippen Method
mvol	123.790	ml/mol	McGowan Method
pc	3682.02	kPa	Joback Method
tb	515.70	K	NIST Webbook
tc	786.63	K	Joback Method
tf	308.09	K	Joback Method
vc	0.457	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.36	J/mol×K	526.77	Joback Method
cpg	212.62	J/mol×K	570.08	Joback Method
cpg	221.15	J/mol×K	613.39	Joback Method
cpg	229.02	J/mol×K	656.70	Joback Method
cpg	236.27	J/mol×K	700.01	Joback Method
cpg	242.95	J/mol×K	743.32	Joback Method
cpg	249.10	J/mol×K	786.63	Joback Method
dvisc	0.0021012	Paxs	308.09	Joback Method
dvisc	0.0012872	Paxs	344.54	Joback Method

dvisc	0.0008661	Paxs	380.98	Joback Method
dvisc	0.0006244	Paxs	417.43	Joback Method
dvisc	0.0004745	Paxs	453.88	Joback Method
dvisc	0.0003756	Paxs	490.32	Joback Method
dvisc	0.0003071	Paxs	526.77	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	408.20	K	0.90	NIST Webbook

## Sources

<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=C33184484&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33184484&amp;Units=SI</a>
<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>

## 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>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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