

# Ethane, 1-chloro-2-iodo-

<b>Other names:</b>	1-Chloro-2-iodoethane 1,2-Chloroiodoethane
<b>Inchi:</b>	InChI=1S/C2H4ClI/c3-1-2-4/h1-2H2
<b>InchiKey:</b>	JTWWWQGSFTWWDL-UHFFFAOYSA-N
<b>Formula:</b>	C2H4ClI
<b>SMILES:</b>	CICCI
<b>Mol. weight [g/mol]:</b>	190.41
<b>CAS:</b>	624-70-4

## Physical Properties

Property code	Value	Unit	Source
gf	12.15	kJ/mol	Joback Method
hf	-47.70 ± 5.00	kJ/mol	NIST Webbook
hfus	9.54	kJ/mol	Joback Method
hvap	33.80	kJ/mol	Joback Method
log10ws	-1.76		Crippen Method
logp	1.660		Crippen Method
mvol	77.100	ml/mol	McGowan Method
pc	4634.00	kPa	Joback Method
tb	375.73	K	Joback Method
tc	592.51	K	Joback Method
tf	200.28	K	Joback Method
vc	0.284	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	92.57	J/mol×K	375.73	Joback Method
cpg	96.94	J/mol×K	411.86	Joback Method
cpg	101.03	J/mol×K	447.99	Joback Method
cpg	104.84	J/mol×K	484.12	Joback Method
cpg	108.40	J/mol×K	520.25	Joback Method
cpg	111.73	J/mol×K	556.38	Joback Method
cpg	114.83	J/mol×K	592.51	Joback Method

dvisc	0.0051514	Paxs	200.28	Joback Method
dvisc	0.0026830	Paxs	229.52	Joback Method
dvisc	0.0016193	Paxs	258.76	Joback Method
dvisc	0.0010829	Paxs	288.00	Joback Method
dvisc	0.0007799	Paxs	317.25	Joback Method
dvisc	0.0005937	Paxs	346.49	Joback Method
dvisc	0.0004716	Paxs	375.73	Joback Method

## Sources

<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=C624704&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C624704&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>

## 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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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