

# 2,4-Dichloriodobenzene

<b>Other names:</b>	1,3-Dichloro-4-iodobenzene Benzene, 2,4-dichloro-1-iodo- 2,4-Dichloro-1-iodobenzene
<b>Inchi:</b>	InChI=1S/C6H3Cl2I/c7-4-1-2-6(9)5(8)3-4/h1-3H
<b>InchiKey:</b>	ZQKJCBDCOGLKCQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H3Cl2I
<b>SMILES:</b>	Clc1ccc(I)c(Cl)c1
<b>Mol. weight [g/mol]:</b>	272.90
<b>CAS:</b>	29898-32-6

## Physical Properties

Property code	Value	Unit	Source
gf	127.05	kJ/mol	Joback Method
hf	91.81	kJ/mol	Joback Method
hfus	17.36	kJ/mol	Joback Method
hvap	50.69	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.598		Crippen Method
mcvol	121.940	ml/mol	McGowan Method
pc	3960.52	kPa	Joback Method
tb	535.70	K	NIST Webbook
tc	811.72	K	Joback Method
tf	326.74	K	Joback Method
vc	0.450	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	182.10	J/mol×K	541.32	Joback Method
cpg	189.09	J/mol×K	586.39	Joback Method
cpg	195.43	J/mol×K	631.45	Joback Method
cpg	201.20	J/mol×K	676.52	Joback Method
cpg	206.42	J/mol×K	721.58	Joback Method
cpg	211.17	J/mol×K	766.65	Joback Method

cpg	215.48	J/mol×K	811.72	Joback Method
dvisc	0.0020077	Paxs	326.74	Joback Method
dvisc	0.0012748	Paxs	362.50	Joback Method
dvisc	0.0008782	Paxs	398.27	Joback Method
dvisc	0.0006433	Paxs	434.03	Joback Method
dvisc	0.0004941	Paxs	469.79	Joback Method
dvisc	0.0003940	Paxs	505.56	Joback Method
dvisc	0.0003237	Paxs	541.32	Joback Method

## 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=C29898326&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29898326&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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

<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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