

# 1,4-Dichlorobenzene-D4

<b>Other names:</b>	1,4-Dichloro-2,3,5,6-tetradeuterobenzene Benzene, 1,4-dichloro-, [2H4]
<b>Inchi:</b>	InChI=1S/C6H4Cl2/c7-5-1-2-6(8)4-3-5/h1-4H/i1D,2D,3D,4D
<b>InchiKey:</b>	OCJBOOLMMGQPQU-RHQRLBAQSA-N
<b>Formula:</b>	C6D4Cl2
<b>SMILES:</b>	Clc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	151.03
<b>CAS:</b>	3855-82-1

## Physical Properties

Property code	Value	Unit	Source
gf	78.56	kJ/mol	Joback Method
hf	26.41	kJ/mol	Joback Method
hfus	13.34	kJ/mol	Joback Method
hvap	40.66	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.993		Crippen Method
mvol	96.120	ml/mol	McGowan Method
pc	4151.61	kPa	Joback Method
rinpol	161.50		NIST Webbook
rinpol	161.50		NIST Webbook
tb	443.20	K	Joback Method
tc	674.86	K	Joback Method
tf	256.16	K	Joback Method
vc	0.361	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	149.05	J/molxK	443.20	Joback Method
cpg	157.36	J/molxK	481.81	Joback Method
cpg	165.09	J/molxK	520.42	Joback Method
cpg	172.26	J/molxK	559.03	Joback Method
cpg	178.92	J/molxK	597.64	Joback Method

cpg	185.08	J/molxK	636.25	Joback Method
cpg	190.77	J/molxK	674.86	Joback Method
dvisc	0.0021588	Paxs	256.16	Joback Method
dvisc	0.0012985	Paxs	287.33	Joback Method
dvisc	0.0008628	Paxs	318.51	Joback Method
dvisc	0.0006166	Paxs	349.68	Joback Method
dvisc	0.0004656	Paxs	380.85	Joback Method
dvisc	0.0003668	Paxs	412.03	Joback Method
dvisc	0.0002989	Paxs	443.20	Joback Method

## 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=C3855821&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3855821&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>rinpol:</b>	Non-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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