

# Dibenzo[b,e][1,4]dioxin, 1,6-dichloro-

<b>Other names:</b>	1,6-Dichlorodibenzo[b,e] [1,4]dioxin
<b>Inchi:</b>	InChI=1S/C12H6Cl2O2/c13-7-3-1-5-9-11(7)16-10-6-2-4-8(14)12(10)15-9/h1-6H
<b>InchiKey:</b>	MAWMBEVNJGEDAD-UHFFFAOYSA-N
<b>Formula:</b>	C12H6Cl2O2
<b>SMILES:</b>	Clc1cccc2c1Oc1cccc(Cl)c1O2
<b>Mol. weight [g/mol]:</b>	253.08
<b>CAS:</b>	38178-38-0

## Physical Properties

Property code	Value	Unit	Source
gf	120.92	kJ/mol	Joback Method
hf	-60.01	kJ/mol	Joback Method
hfus	36.88	kJ/mol	Joback Method
hvap	67.35	kJ/mol	Joback Method
log10ws	-4.36		Crippen Method
logp	4.891		Crippen Method
mcvol	157.780	ml/mol	McGowan Method
pc	3372.36	kPa	Joback Method
rinpol	1969.00		NIST Webbook
rinpol	1969.00		NIST Webbook
rinpol	1968.00		NIST Webbook
tb	683.14	K	Joback Method
tc	945.37	K	Joback Method
tf	466.60	K	Joback Method
vc	0.598	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	407.80	J/molxK	945.37	Joback Method
cpg	357.63	J/molxK	683.14	Joback Method
cpg	367.82	J/molxK	726.84	Joback Method
cpg	377.11	J/molxK	770.55	Joback Method
cpg	385.63	J/molxK	814.25	Joback Method

cpg	393.51	J/mol×K	857.96	Joback Method
cpg	400.86	J/mol×K	901.66	Joback Method
dvisc	0.0005130	Paxs	683.14	Joback Method
dvisc	0.0015388	Paxs	466.60	Joback Method
dvisc	0.0011999	Paxs	502.69	Joback Method
dvisc	0.0009673	Paxs	538.78	Joback Method
dvisc	0.0008012	Paxs	574.87	Joback Method
dvisc	0.0006785	Paxs	610.96	Joback Method
dvisc	0.0005854	Paxs	647.05	Joback Method
hsubt	113.60 ± 2.30	kJ/mol	365.50	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=C38178380&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C38178380&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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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