

# 7-methyl-2,3-dichlorodibenzodioxin

<b>Inchi:</b>	InChI=1S/C13H8Cl2O2/c1-7-2-3-10-11(4-7)17-13-6-9(15)8(14)5-12(13)16-10/h2-6H,1H3
<b>InchiKey:</b>	MNPDMSZHAQPWDL-UHFFFAOYSA-N
<b>Formula:</b>	C13H8Cl2O2
<b>SMILES:</b>	Cc1ccc2c(c1)Oc1cc(Cl)c(Cl)cc1O2
<b>Mol. weight [g/mol]:</b>	267.11

## Physical Properties

Property code	Value	Unit	Source
gf	119.71	kJ/mol	Joback Method
hf	-92.12	kJ/mol	Joback Method
hfus	39.08	kJ/mol	Joback Method
hvap	70.23	kJ/mol	Joback Method
log10ws	-4.83		Crippen Method
logp	5.200		Crippen Method
mcvol	171.870	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
rinpol	2091.00		NIST Webbook
tb	711.00	K	Joback Method
tc	967.86	K	Joback Method
tf	490.39	K	Joback Method
vc	0.653	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	404.60	J/molxK	711.00	Joback Method
cpg	415.43	J/molxK	753.81	Joback Method
cpg	425.41	J/molxK	796.62	Joback Method
cpg	434.66	J/molxK	839.43	Joback Method
cpg	443.29	J/molxK	882.24	Joback Method
cpg	451.39	J/molxK	925.05	Joback Method
cpg	459.08	J/molxK	967.86	Joback Method
dvisc	0.0013489	Paxs	490.39	Joback Method
dvisc	0.0010653	Paxs	527.16	Joback Method

dvisc	0.0008676	Paxs	563.93	Joback Method
dvisc	0.0007245	Paxs	600.70	Joback Method
dvisc	0.0006178	Paxs	637.46	Joback Method
dvisc	0.0005360	Paxs	674.23	Joback Method
dvisc	0.0004719	Paxs	711.00	Joback Method

## Sources

<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>
<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=R173421&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R173421&amp;Units=SI</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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