

# P-p'-dichloro-benzil

<b>Other names:</b>	bis(4-chlorophenyl)ethanedione
<b>Inchi:</b>	InChI=1S/C14H8Cl2O2/c15-11-5-1-9(2-6-11)13(17)14(18)10-3-7-12(16)8-4-10/h1-8H
<b>InchiKey:</b>	XMAWUPHYEABFDR-UHFFFAOYSA-N
<b>Formula:</b>	C14H8Cl2O2
<b>SMILES:</b>	O=C(C(=O)c1ccc(Cl)cc1)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	279.12
<b>CAS:</b>	3457-46-3

## Physical Properties

Property code	Value	Unit	Source
gf	-9.14	kJ/mol	Joback Method
hf	-138.81	kJ/mol	Joback Method
hfus	30.91	kJ/mol	Joback Method
hvap	74.90	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.059		Crippen Method
mcvol	188.220	ml/mol	McGowan Method
pc	2835.36	kPa	Joback Method
tb	765.64	K	Joback Method
tc	1023.86	K	Joback Method
tf	485.12	K	Joback Method
vc	0.714	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	446.04	J/molxK	765.64	Joback Method
cpg	490.19	J/molxK	980.83	Joback Method
cpg	483.21	J/molxK	937.79	Joback Method
cpg	475.38	J/molxK	894.75	Joback Method
cpg	466.62	J/molxK	851.71	Joback Method
cpg	456.87	J/molxK	808.68	Joback Method
cpg	496.40	J/molxK	1023.86	Joback Method
dvisc	0.0001674	Paxs	765.64	Joback Method

dvisc	0.0002057	Paxs	718.89	Joback Method
dvisc	0.0002602	Paxs	672.13	Joback Method
dvisc	0.0003409	Paxs	625.38	Joback Method
dvisc	0.0004665	Paxs	578.63	Joback Method
dvisc	0.0006746	Paxs	531.87	Joback Method
dvisc	0.0010475	Paxs	485.12	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=C3457463&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3457463&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>
<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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