

# Tetrachloro-o-benzoquinone

<b>Other names:</b>	3,5-Cyclohexadiene-1,2-dione, 3,4,5,6-tetrachloro-o-Benzoquinone, 3,4,5,6-tetrachloro-o-Chloranil o-Chloroanil Isochloranil Tetrachloro-o-quinone Tetrachloro-1,2-benzoquinone 3,4,5,6-Tetrachloro-o-benzoquinone 3,4,5,6-Tetrachloro-1,2-benzoquinone 3,4,5,6-Tetrachloro-3,5-cyclohexadiene-1,2-dione ortho-Chloranil NSC 403503 2-Chloranil
<b>Inchi:</b>	InChI=1S/C6Cl4O2/c7-1-2(8)4(10)6(12)5(11)3(1)9
<b>InchiKey:</b>	VRGCYEIGVVTZCC-UHFFFAOYSA-N
<b>Formula:</b>	C6Cl4O2
<b>SMILES:</b>	O=C1C(=O)C(Cl)=C(Cl)C(Cl)=C1Cl
<b>Mol. weight [g/mol]:</b>	245.88
<b>CAS:</b>	2435-53-2

## Physical Properties

Property code	Value	Unit	Source
gf	-239.70	kJ/mol	Joback Method
hf	-361.19	kJ/mol	Joback Method
hfus	18.76	kJ/mol	Joback Method
hvap	58.95	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.517		Crippen Method
mcvol	128.040	ml/mol	McGowan Method
pc	3801.00	kPa	Joback Method
tb	664.50	K	Joback Method
tc	935.65	K	Joback Method
tf	476.72	K	Joback Method
vc	0.487	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.43	J/mol×K	664.50	Joback Method
cpg	233.75	J/mol×K	709.69	Joback Method
cpg	240.55	J/mol×K	754.88	Joback Method
cpg	246.72	J/mol×K	800.07	Joback Method
cpg	252.16	J/mol×K	845.26	Joback Method
cpg	256.77	J/mol×K	890.46	Joback Method
cpg	260.45	J/mol×K	935.65	Joback Method

## Sources

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2435532&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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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