

# 2,5-Cyclohexadiene-1,4-dione, 2,5-dichloro-

<b>Other names:</b>	p-Benzoquinone, 2,5-dichloro- 2,5-Dichloro-p-benzoquinone 2,5-Dichloro-1,4-benzoquinone 2,5-Dichloro-2,5-cyclohexa-diene-1,4-dione 2,5-Dichloro-p-benzoquinone 2,5-Dichlorobenzoquinone
<b>Inchi:</b>	InChI=1S/C6H2Cl2O2/c7-3-1-5(9)4(8)2-6(3)10/h1-2H
<b>InchiKey:</b>	LNxVNZRYYHFMEY-UHFFFAOYSA-N
<b>Formula:</b>	C6H2Cl2O2
<b>SMILES:</b>	O=C1C=C(Cl)C(=O)C=C1Cl
<b>Mol. weight [g/mol]:</b>	176.99
<b>CAS:</b>	615-93-0

## Physical Properties

Property code	Value	Unit	Source
chs	-2448.90 ± 8.40	kJ/mol	NIST Webbook
chs	-2443.00	kJ/mol	NIST Webbook
ea	2.37 ± 0.05	eV	NIST Webbook
ea	2.44 ± 0.06	eV	NIST Webbook
gf	-196.58	kJ/mol	Joback Method
hf	-306.77	kJ/mol	Joback Method
hfs	-255.00	kJ/mol	NIST Webbook
hfus	11.14	kJ/mol	Joback Method
hvap	48.86	kJ/mol	Joback Method
ie	10.24 ± 0.03	eV	NIST Webbook
log10ws	-1.79		Crippen Method
logp	1.384		Crippen Method
mcvol	103.560	ml/mol	McGowan Method
pc	4339.67	kPa	Joback Method
tb	579.68	K	Joback Method
tc	843.27	K	Joback Method
tf	391.84	K	Joback Method
vc	0.390	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.18	J/mol×K	579.68	Joback Method
cpg	202.21	J/mol×K	623.61	Joback Method
cpg	210.81	J/mol×K	667.54	Joback Method
cpg	218.88	J/mol×K	711.47	Joback Method
cpg	226.34	J/mol×K	755.40	Joback Method
cpg	233.14	J/mol×K	799.34	Joback Method
cpg	239.18	J/mol×K	843.27	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=C615930&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C615930&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>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>ea:</b>	Electron affinity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase 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>ie:</b>	Ionization energy
<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

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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