Hydroquinone, tetrachloro-

Other names:	1,4-Benzenediol, 2,3,5,6-tetrachloro-
	Tetrachloro-p-benzohydroquinone
	Tetrachloro-p-hydroquinone
	Tetrachlorobenzoquinol
	Tetrachlorohydroquinone
	2,3,5,6-Tetrachlorohydroquinone
	2,3,5,6-Tetrachloro-1,4-benzenediol
	2,3,5,6-Tetrachlorobenzene-1,4-diol
	USAF DO-62
	Dihydro-p-chloranil
	Nordrosophilin A
	NSC 100888
	Perchlorohydroquinone
	Tetrachloro-1,4-benzenediol
Inchi:	InChI=1S/C6H2Cl4O2/c7-1-2(8)6(12)4(10)3(9)5(1)11/h11-12H
InchiKey:	STOSPPMGXZPHKP-UHFFFAOYSA-N
Formula:	C6H2Cl4O2
SMILES:	Oc1c(Cl)c(Cl)c(O)c(Cl)c1Cl
Mol. weight [g/mol]:	247.89
CAS:	87-87-6

Physical Properties

Property code	Value	Unit	Source
chs	-2355.00	kJ/mol	NIST Webbook
chs	-2277.00	kJ/mol	NIST Webbook
chs	-2287.80 ± 8.40	kJ/mol	NIST Webbook
gf	-273.80	kJ/mol	Joback Method
hf	-382.63	kJ/mol	Joback Method
hfs	-463.20	kJ/mol	NIST Webbook
hfus	32.52	kJ/mol	Joback Method
hsub	88.70	kJ/mol	NIST Webbook
hvap	76.78	kJ/mol	Joback Method
ie	8.30 ± 0.05	eV	NIST Webbook
log10ws	-3.31		Crippen Method
logp	3.711		Crippen Method
mcvol	132.340	ml/mol	McGowan Method
pc	5422.51	kPa	Joback Method

tb	689.26	K	Joback Method
tc	953.67	K	Joback Method
tf	564.48	K	Joback Method
vc	0.392	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	247.27	J/mol×K	689.26	Joback Method
cpg	251.42	J/mol×K	733.33	Joback Method
cpg	255.42	J/mol×K	777.40	Joback Method
cpg	259.44	J/mol×K	821.47	Joback Method
cpg	263.62	J/mol×K	865.54	Joback Method
cpg	268.15	J/mol×K	909.61	Joback Method
cpg	273.16	J/mol×K	953.67	Joback Method
dvisc	0.0000158	Pa×s	585.28	Joback Method
dvisc	0.0000238	Pa×s	564.48	Joback Method
dvisc	0.0000108	Pa×s	606.07	Joback Method
dvisc	0.0000076	Pa×s	626.87	Joback Method
dvisc	0.0000055	Pa×s	647.67	Joback Method
dvisc	0.0000040	Pa×s	668.46	Joback Method
dvisc	0.0000030	Pa×s	689.26	Joback Method
hsubt	89.00	kJ/mol	328.50	NIST Webbook
hsubt	88.70	kJ/mol	344.50	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
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=C87876&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume