

# tetrachloroguaiacol

<b>Other names:</b>	2,3,4,5-tetrachloro-6-methoxyphenol
<b>Inchi:</b>	InChI=1S/C7H4Cl4O2/c1-13-7-5(11)3(9)2(8)4(10)6(7)12/h12H,1H3
<b>InchiKey:</b>	YZZVKLJKDFFSFL-UHFFFAOYSA-N
<b>Formula:</b>	C7H4Cl4O2
<b>SMILES:</b>	COc1c(O)c(Cl)c(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	261.92

## Physical Properties

Property code	Value	Unit	Source
gf	-225.39	kJ/mol	Joback Method
hf	-369.65	kJ/mol	Joback Method
hfus	30.13	kJ/mol	Joback Method
hvap	69.06	kJ/mol	Joback Method
log10ws	-4.02		Aqueous Solubility Prediction Method
log10ws	-4.02		Estimated Solubility Method
logp	4.014		Crippen Method
mcvol	146.430	ml/mol	McGowan Method
pc	3740.80	kPa	Joback Method
tb	658.92	K	Joback Method
tc	906.45	K	Joback Method
tf	498.78	K	Joback Method
vc	0.499	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.46	J/molxK	658.92	Joback Method
cpg	285.84	J/molxK	700.17	Joback Method
cpg	291.84	J/molxK	741.43	Joback Method
cpg	297.50	J/molxK	782.68	Joback Method
cpg	302.89	J/molxK	823.94	Joback Method
cpg	308.03	J/molxK	865.19	Joback Method

cpg	312.99	J/molxK	906.45	Joback Method
dvisc	0.0001877	Paxs	498.78	Joback Method
dvisc	0.0001234	Paxs	525.47	Joback Method
dvisc	0.0000845	Paxs	552.16	Joback Method
dvisc	0.0000599	Paxs	578.85	Joback Method
dvisc	0.0000438	Paxs	605.54	Joback Method
dvisc	0.0000329	Paxs	632.23	Joback Method
dvisc	0.0000252	Paxs	658.92	Joback Method

## Sources

<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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>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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</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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