

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

<b>Other names:</b>	p-Benzoquinone, 2,5-dihydroxy- 2,5-Dihydroxy-p-benzoquinone 2,5-Dihydroxy-1,4-benzoquinone 2,5-Dihydroxy-p-benzoquinone 2,5-Dihydroxybenzoquinone
<b>Inchi:</b>	InChI=1S/C6H4O4/c7-3-1-4(8)6(10)2-5(3)9/h1-2,7,10H
<b>InchiKey:</b>	QFSYADJLNBHAKO-UHFFFAOYSA-N
<b>Formula:</b>	C6H4O4
<b>SMILES:</b>	O=C1C=C(O)C(=O)C=C1O
<b>Mol. weight [g/mol]:</b>	140.09
<b>CAS:</b>	615-94-1

## Physical Properties

Property code	Value	Unit	Source
gf	-446.36	kJ/mol	Joback Method
hf	-579.75	kJ/mol	Joback Method
hfus	10.92	kJ/mol	Joback Method
hvap	73.45	kJ/mol	Joback Method
log10ws	-0.13		Crippen Method
logp	0.022		Crippen Method
mcvol	90.820	ml/mol	McGowan Method
pc	6298.82	kPa	Joback Method
tb	689.18	K	Joback Method
tc	903.55	K	Joback Method
tf	453.64	K	Joback Method
vc	0.330	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.17	J/molxK	689.18	Joback Method
cpg	235.56	J/molxK	724.91	Joback Method
cpg	242.50	J/molxK	760.64	Joback Method
cpg	248.95	J/molxK	796.36	Joback Method

cpg	254.85	J/mol×K	832.09	Joback Method
cpg	260.19	J/mol×K	867.82	Joback Method
cpg	264.90	J/mol×K	903.55	Joback Method

## Sources

<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>
<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=C615941&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C615941&amp;Units=SI</a>

## 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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