

# 1,4-Benzenediol, 2,6-dimethyl-

<b>Other names:</b>	m-Xylene-2,5-diol m-Xylohydroquinone m-XHQ Hydroquinone, 2,6-dimethyl- 2,6-Dimethyl-p-benzohydroquinone 2,6-Dimethylhydroquinone 2,6-Xylohydroquinone 3,5-Dimethylhydroquinone DMHQ Metaxylohydroquinone 2,6-Xyloquinol NSC 36868
<b>Inchi:</b>	InChI=1S/C8H10O2/c1-5-3-7(9)4-6(2)8(5)10/h3-4,9-10H,1-2H3
<b>InchiKey:</b>	SGWZVZZVXOJRAQ-UHFFFAOYSA-N
<b>Formula:</b>	C8H10O2
<b>SMILES:</b>	<chem>Cc1cc(O)cc(C)c1O</chem>
<b>Mol. weight [g/mol]:</b>	138.16
<b>CAS:</b>	654-42-2

## Physical Properties

Property code	Value	Unit	Source
gf	-189.98	kJ/mol	Joback Method
hf	-338.01	kJ/mol	Joback Method
hfus	21.69	kJ/mol	Joback Method
hvap	62.37	kJ/mol	Joback Method
log10ws	-1.52		Crippen Method
logp	1.715		Crippen Method
mcvol	111.560	ml/mol	McGowan Method
pc	5312.41	kPa	Joback Method
tb	575.34	K	Joback Method
tc	814.79	K	Joback Method
tf	442.30	K	Joback Method
vc	0.307	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.68	J/molxK	575.34	Joback Method
cpg	312.26	J/molxK	774.89	Joback Method
cpg	304.55	J/molxK	734.98	Joback Method
cpg	296.46	J/molxK	695.07	Joback Method
cpg	287.88	J/molxK	655.16	Joback Method
cpg	278.66	J/molxK	615.25	Joback Method
cpg	319.75	J/molxK	814.79	Joback Method
dvisc	0.0000097	Paxs	575.34	Joback Method
dvisc	0.0000148	Paxs	553.17	Joback Method
dvisc	0.0000234	Paxs	530.99	Joback Method
dvisc	0.0000386	Paxs	508.82	Joback Method
dvisc	0.0000664	Paxs	486.65	Joback Method
dvisc	0.0001205	Paxs	464.47	Joback Method
dvisc	0.0002320	Paxs	442.30	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=C654422&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C654422&amp;Units=SI</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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