

# 1,4-Naphthalenedione, 2-hydroxy-3-methyl-

<b>Other names:</b>	1,4-Naphthoquinone, 2-hydroxy-3-methyl- Phthiocol Phthiokol 2-Hydroxy-3-methyl-1,4-naphthoquinone 2-Methyl-3-hydroxy-1,4-naphthoquinone 3-Hydroxy-2-methyl-1,4-naphthoquinone
<b>Inchi:</b>	InChI=1S/C11H8O3/c1-6-9(12)7-4-2-3-5-8(7)11(14)10(6)13/h2-5,13H,1H3
<b>InchiKey:</b>	LULCPJWUGUVEFU-UHFFFAOYSA-N
<b>Formula:</b>	C11H8O3
<b>SMILES:</b>	<chem>CC1=C(O)C(=O)c2ccccc2C1=O</chem>
<b>Mol. weight [g/mol]:</b>	188.18
<b>CAS:</b>	483-55-6

## Physical Properties

Property code	Value	Unit	Source
gf	-170.42	kJ/mol	Joback Method
hf	-351.12	kJ/mol	Joback Method
hfus	16.41	kJ/mol	Joback Method
hvap	70.20	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	1.898		Crippen Method
mcvol	135.940	ml/mol	McGowan Method
pc	3896.50	kPa	Joback Method
tb	735.36	K	Joback Method
tc	973.28	K	Joback Method
tf	494.39	K	Joback Method
vc	0.512	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.28	J/mol×K	735.36	Joback Method
cpg	373.32	J/mol×K	775.01	Joback Method
cpg	383.53	J/mol×K	814.67	Joback Method

cpg	392.88	J/mol×K	854.32	Joback Method
cpg	401.37	J/mol×K	893.97	Joback Method
cpg	408.97	J/mol×K	933.62	Joback Method
cpg	415.67	J/mol×K	973.28	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=C483556&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C483556&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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