

# 1,2-Naphthalenedione

<b>Other names:</b>	«beta»-Naphthoquinone o-Naphthoquinone 1,2-Naphthoquinone Naphthoquinone-(1,2) 1,2-Naphthaquinone 1,2-Naftochinon
<b>Inchi:</b>	InChI=1S/C10H6O2/c11-9-6-5-7-3-1-2-4-8(7)10(9)12/h1-6H
<b>InchiKey:</b>	KETQAJRQOHATG-UHFFFAOYSA-N
<b>Formula:</b>	C10H6O2
<b>SMILES:</b>	O=C1C=Cc2ccccc2C1=O
<b>Mol. weight [g/mol]:</b>	158.15
<b>CAS:</b>	524-42-5

## Physical Properties

Property code	Value	Unit	Source
chs	-4629.20	kJ/mol	NIST Webbook
gf	-22.76	kJ/mol	Joback Method
hf	-155.31	kJ/mol	Joback Method
hfus	10.51	kJ/mol	Joback Method
hvap	49.97	kJ/mol	Joback Method
log10ws	-2.13		Crippen Method
logp	1.465		Crippen Method
mcvol	115.980	ml/mol	McGowan Method
pc	4067.32	kPa	Joback Method
rinpola	264.10		NIST Webbook
tb	610.34	K	Joback Method
tc	877.21	K	Joback Method
tf	397.26	K	Joback Method
vc	0.438	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.12	J/mol×K	610.34	Joback Method

cpg	284.57	J/mol×K	654.82	Joback Method
cpg	297.05	J/mol×K	699.30	Joback Method
cpg	308.56	J/mol×K	743.78	Joback Method
cpg	319.09	J/mol×K	788.26	Joback Method
cpg	328.63	J/mol×K	832.73	Joback Method
cpg	337.17	J/mol×K	877.21	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=C524425&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C524425&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>rinpol:</b>	Non-polar retention indices
<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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