

# Naphtho[1,2-c]furan-1,3-dione

<b>Other names:</b>	1,2-Naphthalic acid anhydride
<b>Inchi:</b>	InChI=1S/C12H6O3/c13-11-9-6-5-7-3-1-2-4-8(7)10(9)12(14)15-11/h1-6H
<b>InchiKey:</b>	IDVDAZFXGGNIDQ-UHFFFAOYSA-N
<b>Formula:</b>	C12H6O3
<b>SMILES:</b>	O=C1OC(=O)c2c1ccc1cccc21
<b>Mol. weight [g/mol]:</b>	198.17
<b>CAS:</b>	5343-99-7

## Physical Properties

Property code	Value	Unit	Source
gf	-12.88	kJ/mol	Joback Method
hf	-200.61	kJ/mol	Joback Method
hfus	21.18	kJ/mol	Joback Method
hvap	60.77	kJ/mol	Joback Method
log10ws	-3.73		Crippen Method
logp	2.150		Crippen Method
mcvol	134.870	ml/mol	McGowan Method
pc	3906.25	kPa	Joback Method
rinpol	310.04		NIST Webbook
tb	703.58	K	Joback Method
tc	975.82	K	Joback Method
tf	494.35	K	Joback Method
vc	0.514	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.21	J/molxK	703.58	Joback Method
cpg	362.66	J/molxK	748.95	Joback Method
cpg	374.06	J/molxK	794.33	Joback Method
cpg	384.47	J/molxK	839.70	Joback Method
cpg	393.92	J/molxK	885.07	Joback Method
cpg	402.46	J/molxK	930.44	Joback Method
cpg	410.14	J/molxK	975.82	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=C5343997&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5343997&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>rinpola:</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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