

# 1-(4-Hydroxy-3-methoxyphenyl)hexadecane-3,5-dione

<b>Other names:</b>	[12]-Gingerdione
<b>Inchi:</b>	InChI=1S/C23H36O4/c1-3-4-5-6-7-8-9-10-11-12-20(24)18-21(25)15-13-19-14-16-22(26)23
<b>InchiKey:</b>	SRGFWRMSKPVJOD-UHFFFAOYSA-N
<b>Formula:</b>	C23H36O4
<b>SMILES:</b>	CCCCCCCCCCCC(=O)CC(=O)CCc1ccc(O)c(OC)c1
<b>Mol. weight [g/mol]:</b>	376.53
<b>CAS:</b>	91815-31-5

## Physical Properties

Property code	Value	Unit	Source
gf	-271.90	kJ/mol	Joback Method
hf	-827.68	kJ/mol	Joback Method
hfus	59.15	kJ/mol	Joback Method
hvap	98.65	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	5.783		Crippen Method
mcvol	326.050	ml/mol	McGowan Method
pc	1229.42	kPa	Joback Method
rinpol	2995.80		NIST Webbook
rinpol	2995.80		NIST Webbook
tb	968.08	K	Joback Method
tc	1186.06	K	Joback Method
tf	621.72	K	Joback Method
vc	1.212	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1088.39	J/molxK	968.08	Joback Method
cpg	1165.40	J/molxK	1149.73	Joback Method
cpg	1151.34	J/molxK	1113.40	Joback Method
cpg	1136.71	J/molxK	1077.07	Joback Method
cpg	1121.40	J/molxK	1040.74	Joback Method
cpg	1105.32	J/molxK	1004.41	Joback Method

cpg	1178.97	J/molxK	1186.06	Joback Method
dvisc	0.0000017	Paxs	968.08	Joback Method
dvisc	0.0000024	Paxs	910.35	Joback Method
dvisc	0.0000037	Paxs	852.63	Joback Method
dvisc	0.0000059	Paxs	794.90	Joback Method
dvisc	0.0000102	Paxs	737.17	Joback Method
dvisc	0.0000195	Paxs	679.45	Joback Method
dvisc	0.0000418	Paxs	621.72	Joback Method

## Sources

<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=C91815315&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C91815315&amp;Units=SI</a>
<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>

## 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>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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