

# Phloretin, tetramethyl ether

<b>Other names:</b>	3-(4-Methoxyphenyl)-1-(2,4,6-trimethoxyphenyl)propan-1-one
<b>Inchi:</b>	InChI=1S/C19H22O5/c1-21-14-8-5-13(6-9-14)7-10-16(20)19-17(23-3)11-15(22-2)12-18(1)
<b>InchiKey:</b>	OTGNHTCWPYBYKB-UHFFFAOYSA-N
<b>Formula:</b>	C19H22O5
<b>SMILES:</b>	COc1ccc(CCC(=O)c2c(OC)cc(OC)cc2OC)cc1
<b>Mol. weight [g/mol]:</b>	330.38

## Physical Properties

Property code	Value	Unit	Source
gf	-253.52	kJ/mol	Joback Method
hf	-649.77	kJ/mol	Joback Method
hfus	37.84	kJ/mol	Joback Method
hvap	81.47	kJ/mol	Joback Method
log10ws	-4.64		Crippen Method
logp	3.536		Crippen Method
mvol	256.100	ml/mol	McGowan Method
pc	1672.79	kPa	Joback Method
rinpol	2739.00		NIST Webbook
tb	850.95	K	Joback Method
tc	1070.55	K	Joback Method
tf	545.66	K	Joback Method
vc	0.962	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	762.54	J/molxK	850.95	Joback Method
cpg	821.71	J/molxK	1033.95	Joback Method
cpg	812.66	J/molxK	997.35	Joback Method
cpg	802.20	J/molxK	960.75	Joback Method
cpg	790.35	J/molxK	924.15	Joback Method
cpg	777.12	J/molxK	887.55	Joback Method
cpg	829.33	J/molxK	1070.55	Joback Method
dvisc	0.0000394	Paxs	850.95	Joback Method

dvisc	0.0000482	Paxs	800.07	Joback Method
dvisc	0.0000606	Paxs	749.19	Joback Method
dvisc	0.0000788	Paxs	698.31	Joback Method
dvisc	0.0001067	Paxs	647.42	Joback Method
dvisc	0.0001521	Paxs	596.54	Joback Method
dvisc	0.0002319	Paxs	545.66	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=U333706&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U333706&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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