

# 3-(4-hydroxyphenyl)-1-(2,4,6-trihydroxyphenyl)pro

<b>Other names:</b>	phloretin
<b>Inchi:</b>	InChI=1S/C15H14O5/c16-10-4-1-9(2-5-10)3-6-12(18)15-13(19)7-11(17)8-14(15)20/h1-2,
<b>InchiKey:</b>	VGEREEWJJVICBM-UHFFFAOYSA-N
<b>Formula:</b>	C15H14O5
<b>SMILES:</b>	O=C(CCc1ccc(O)cc1)c1c(O)cc(O)cc1O
<b>Mol. weight [g/mol]:</b>	274.27

## Physical Properties

Property code	Value	Unit	Source
gf	-447.16	kJ/mol	Joback Method
hf	-701.69	kJ/mol	Joback Method
hfus	56.44	kJ/mol	Solubilities of Three Flavonoids in Different Natural Deep Eutectic Solvents at T = (288.15 to 328.15) K
hvap	112.34	kJ/mol	Joback Method
log10ws	-2.36		Crippen Method
logp	2.324		Crippen Method
mcvol	199.740	ml/mol	McGowan Method
pc	5594.19	kPa	Joback Method
tb	972.31	K	Joback Method
tc	1237.14	K	Joback Method
tf	808.46	K	Joback Method
tt	542.96	K	Solubilities of Three Flavonoids in Different Natural Deep Eutectic Solvents at T = (288.15 to 328.15) K
vc	0.529	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	625.03	J/mol×K	972.31	Joback Method
cpg	640.93	J/mol×K	1016.45	Joback Method
cpg	658.38	J/mol×K	1060.59	Joback Method

cpg	677.77	J/molxK	1104.72	Joback Method
cpg	699.49	J/molxK	1148.86	Joback Method
cpg	723.91	J/molxK	1193.00	Joback Method
cpg	751.43	J/molxK	1237.14	Joback Method
dvisc	3.8267684e-09	Paxs	808.46	Joback Method
dvisc	2.3478871e-09	Paxs	835.77	Joback Method
dvisc	1.4857567e-09	Paxs	863.08	Joback Method
dvisc	9.6695962e-10	Paxs	890.38	Joback Method
dvisc	6.4561098e-10	Paxs	917.69	Joback Method
dvisc	4.4123803e-10	Paxs	945.00	Joback Method
dvisc	3.0807758e-10	Paxs	972.31	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>Solubilities of Three Flavonoids in Different Natural Deep Eutectic Solvents at 288.15 to 328.15) K:</b>	<a href="https://www.doi.org/10.1021/acs.jced.6b00552">https://www.doi.org/10.1021/acs.jced.6b00552</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>

## 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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>tt:</b>	Triple Point Temperature
<b>vc:</b>	Critical Volume

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