

# 1-(2-Hydroxyphenyl)-3-phenyl-1-propanone

<b>Other names:</b>	2'-Hydroxy-3-phenylpropiophenone o-Hydroxy-«beta»-phenyl propiophenone 1-Propanone, 1-(2-hydroxyphenyl)-2-phenyl- PROPAFENONE-H2O, M(O-DESALKYL-)
<b>Inchi:</b>	InChI=1S/C15H14O2/c16-14-9-5-4-8-13(14)15(17)11-10-12-6-2-1-3-7-12/h1-9,16H,10-1
<b>InchiKey:</b>	JCPGMXJLFWGRMZ-UHFFFAOYSA-N
<b>Formula:</b>	C15H14O2
<b>SMILES:</b>	O=C(CCc1ccccc1)c1ccccc1O
<b>Mol. weight [g/mol]:</b>	226.27
<b>CAS:</b>	42772-82-7

## Physical Properties

Property code	Value	Unit	Source
gf	16.70	kJ/mol	Joback Method
hf	-169.76	kJ/mol	Joback Method
hfus	30.07	kJ/mol	Joback Method
hvap	73.30	kJ/mol	Joback Method
log10ws	-3.71		Crippen Method
logp	3.208		Crippen Method
mcvol	182.130	ml/mol	McGowan Method
pc	3142.03	kPa	Joback Method
rinpol	1830.00		NIST Webbook
tb	730.45	K	Joback Method
tc	979.09	K	Joback Method
tf	473.30	K	Joback Method
vc	0.631	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	491.41	J/molxK	730.45	Joback Method
cpg	505.34	J/molxK	771.89	Joback Method
cpg	518.25	J/molxK	813.33	Joback Method
cpg	530.28	J/molxK	854.77	Joback Method

cpg	541.57	J/molxK	896.21	Joback Method
cpg	552.27	J/molxK	937.65	Joback Method
cpg	562.53	J/molxK	979.09	Joback Method
dvisc	0.0004041	Paxs	473.30	Joback Method
dvisc	0.0001820	Paxs	516.16	Joback Method
dvisc	0.0000926	Paxs	559.02	Joback Method
dvisc	0.0000519	Paxs	601.88	Joback Method
dvisc	0.0000314	Paxs	644.73	Joback Method
dvisc	0.0000202	Paxs	687.59	Joback Method
dvisc	0.0000137	Paxs	730.45	Joback Method

## Sources

<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=C42772827&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C42772827&amp;Units=SI</a>
<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>

## 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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