

# m-Hydroxybenzophenone

<b>Other names:</b>	Methanone, (3-hydroxyphenyl)(phenyl)- 3-Hydroxybenzophenone
<b>Inchi:</b>	InChI=1S/C13H10O2/c14-12-8-4-7-11(9-12)13(15)10-5-2-1-3-6-10/h1-9,14H
<b>InchiKey:</b>	SHULEACXTONYPS-UHFFFAOYSA-N
<b>Formula:</b>	C13H10O2
<b>SMILES:</b>	O=C(c1ccccc1)c1ccc(O)c1
<b>Mol. weight [g/mol]:</b>	198.22
<b>CAS:</b>	13020-57-0

## Physical Properties

Property code	Value	Unit	Source
gf	-0.14	kJ/mol	Joback Method
hf	-128.48	kJ/mol	Joback Method
hfus	24.89	kJ/mol	Joback Method
hvap	68.84	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.623		Crippen Method
mvol	153.950	ml/mol	McGowan Method
pc	3945.61	kPa	Joback Method
tb	684.69	K	Joback Method
tc	945.04	K	Joback Method
tf	450.76	K	Joback Method
vc	0.519	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	389.74	J/mol×K	684.69	Joback Method
cpg	444.52	J/mol×K	901.65	Joback Method
cpg	435.10	J/mol×K	858.25	Joback Method
cpg	425.07	J/mol×K	814.86	Joback Method
cpg	414.27	J/mol×K	771.47	Joback Method
cpg	402.55	J/mol×K	728.08	Joback Method
cpg	453.47	J/mol×K	945.04	Joback Method

dvisc	0.0000206	Paxs	684.69	Joback Method
dvisc	0.0000303	Paxs	645.70	Joback Method
dvisc	0.0000467	Paxs	606.71	Joback Method
dvisc	0.0000765	Paxs	567.72	Joback Method
dvisc	0.0001348	Paxs	528.74	Joback Method
dvisc	0.0002598	Paxs	489.75	Joback Method
dvisc	0.0005613	Paxs	450.76	Joback Method

## Sources

<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=C13020570&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13020570&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>

## 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>hvac:</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>vc:</b>	Critical Volume

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