

# 1-Hydroxy-1-(4-methoxyphenyl)propan-2-one

<b>Inchi:</b>	InChI=1S/C10H12O3/c1-7(11)10(12)8-3-5-9(13-2)6-4-8/h3-6,10,12H,1-2H3
<b>InchiKey:</b>	UVVXGUZSUNRWQG-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O3
<b>SMILES:</b>	COc1ccc(C(O)C(C)=O)cc1
<b>Mol. weight [g/mol]:</b>	180.20
<b>CAS:</b>	15482-29-8

## Physical Properties

Property code	Value	Unit	Source
gf	-237.08	kJ/mol	Joback Method
hf	-426.98	kJ/mol	Joback Method
hfus	18.66	kJ/mol	Joback Method
hvap	66.24	kJ/mol	Joback Method
log10ws	-1.82		Crippen Method
logp	1.318		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	3395.98	kPa	Joback Method
rinpol	1678.20		NIST Webbook
tb	627.89	K	Joback Method
tc	831.09	K	Joback Method
tf	359.38	K	Joback Method
vc	0.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.72	J/molxK	627.89	Joback Method
cpg	400.38	J/molxK	797.22	Joback Method
cpg	391.69	J/molxK	763.36	Joback Method
cpg	382.39	J/molxK	729.49	Joback Method
cpg	372.47	J/molxK	695.62	Joback Method
cpg	361.92	J/molxK	661.76	Joback Method
cpg	408.47	J/molxK	831.09	Joback Method
dvisc	0.0000622	Paxs	627.89	Joback Method

dvisc	0.0000938	Paxs	583.14	Joback Method
dvisc	0.0001515	Paxs	538.39	Joback Method
dvisc	0.0002667	Paxs	493.63	Joback Method
dvisc	0.0005256	Paxs	448.88	Joback Method
dvisc	0.0012040	Paxs	404.13	Joback Method
dvisc	0.0033905	Paxs	359.38	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=C15482298&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15482298&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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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