

# o-Acetoacetylphenol

<b>Other names:</b>	o-Hydroxybenzoylacetone
<b>Inchi:</b>	InChI=1S/C10H10O3/c1-7(11)6-10(13)8-4-2-3-5-9(8)12/h2-5,12H,6H2,1H3
<b>InchiKey:</b>	FAIACLOKYTYHSR-UHFFFAOYSA-N
<b>Formula:</b>	C10H10O3
<b>SMILES:</b>	CC(=O)CC(=O)c1ccccc1O
<b>Mol. weight [g/mol]:</b>	178.18
<b>CAS:</b>	16636-62-7

## Physical Properties

Property code	Value	Unit	Source
gf	-266.73	kJ/mol	Joback Method
hf	-415.67	kJ/mol	Joback Method
hfus	24.68	kJ/mol	Joback Method
hvap	66.64	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	1.554		Crippen Method
mcvol	137.010	ml/mol	McGowan Method
pc	4046.64	kPa	Joback Method
tb	643.24	K	Joback Method
tc	876.58	K	Joback Method
tf	440.46	K	Joback Method
vc	0.466	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	339.24	J/molxK	643.24	Joback Method
cpg	386.59	J/molxK	837.69	Joback Method
cpg	378.36	J/molxK	798.80	Joback Method
cpg	369.59	J/molxK	759.91	Joback Method
cpg	360.21	J/molxK	721.02	Joback Method
cpg	350.12	J/molxK	682.13	Joback Method
cpg	394.38	J/molxK	876.58	Joback Method
dvisc	0.0000348	Paxs	643.24	Joback Method

dvisc	0.0000504	Paxs	609.44	Joback Method
dvisc	0.0000762	Paxs	575.65	Joback Method
dvisc	0.0001214	Paxs	541.85	Joback Method
dvisc	0.0002055	Paxs	508.05	Joback Method
dvisc	0.0003752	Paxs	474.26	Joback Method
dvisc	0.0007511	Paxs	440.46	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=C16636627&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16636627&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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/52-298-4/o-Acetoacetylphenol.pdf>

Generated by Cheméo on 2024-04-25 19:13:32.153012731 +0000 UTC m=+16361661.073590042.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.