

# P-hydroxybenzylidene malonic acid

<b>Inchi:</b>	InChI=1S/C10H8O5/c11-7-3-1-6(2-4-7)5-8(9(12)13)10(14)15/h1-5,11H,(H,12,13)(H,14,15)
<b>InchiKey:</b>	VIZIOWSVZAXMNU-UHFFFAOYSA-N
<b>Formula:</b>	C10H8O5
<b>SMILES:</b>	O=C(O)C(=Cc1ccc(O)cc1)C(=O)O
<b>Mol. weight [g/mol]:</b>	208.17
<b>CAS:</b>	17449-03-5

## Physical Properties

Property code	Value	Unit	Source
gf	-468.70	kJ/mol	Joback Method
hf	-612.70	kJ/mol	Joback Method
hfus	31.75	kJ/mol	Joback Method
hvap	100.03	kJ/mol	Joback Method
log10ws	-0.88		Crippen Method
logp	0.945		Crippen Method
mcvol	144.450	ml/mol	McGowan Method
pc	5644.74	kPa	Joback Method
tb	831.64	K	Joback Method
tc	1046.33	K	Joback Method
tf	543.06	K	Joback Method
vc	0.484	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.10	J/molxK	831.64	Joback Method
cpg	399.89	J/molxK	867.42	Joback Method
cpg	406.44	J/molxK	903.20	Joback Method
cpg	412.84	J/molxK	938.99	Joback Method
cpg	419.18	J/molxK	974.77	Joback Method
cpg	425.54	J/molxK	1010.55	Joback Method
cpg	432.02	J/molxK	1046.33	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=C17449035&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C17449035&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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>mccol:</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/78-842-1/P-hydroxybenzylidene-malonic-acid.pdf>

Generated by Cheméo on 2024-04-30 01:10:54.221572722 +0000 UTC m=+16728703.142150037.

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