

# Ethanone, 1-(2,4-dihydroxyphenyl)-

<b>Other names:</b>	Acetophenone, 2',4'-dihydroxy- «beta»-Resacetophenone Resacetophenone Resoacetophenone 2,4-Dihydroxyacetophenone 2',4'-Dihydroxyacetophenone 4-Acetylresorcinol Resorcinol, 4-acetyl- beta-Resacetophenone 1-(2,4-Dihydroxyphenyl)ethanone 1-Acetylbenzene-2,4-diol 4-Acetyl-1,3-benzenediol NSC 10883
<b>Inchi:</b>	InChI=1S/C8H8O3/c1-5(9)7-3-2-6(10)4-8(7)11/h2-4,10-11H,1H3
<b>InchiKey:</b>	SULYEHGGXARJS-UHFFFAOYSA-N
<b>Formula:</b>	C8H8O3
<b>SMILES:</b>	CC(=O)c1ccc(O)cc1O
<b>Mol. weight [g/mol]:</b>	152.15
<b>CAS:</b>	89-84-9

## Physical Properties

Property code	Value	Unit	Source
chs	-3717.90 ± 3.80	kJ/mol	NIST Webbook
gf	-309.27	kJ/mol	Joback Method
hf	-439.12	kJ/mol	Joback Method
hfus	23.68	kJ/mol	Joback Method
hvap	68.45	kJ/mol	Joback Method
log10ws	-1.23		Crippen Method
logp	1.300		Crippen Method
mcvol	113.130	ml/mol	McGowan Method
pc	5972.16	kPa	Joback Method
tb	624.23	K	Joback Method
tc	869.83	K	Joback Method
tf	479.71	K	Joback Method
vc	0.314	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.53	J/molxK	624.23	Joback Method
cpg	287.36	J/molxK	665.16	Joback Method
cpg	295.51	J/molxK	706.10	Joback Method
cpg	303.12	J/molxK	747.03	Joback Method
cpg	310.35	J/molxK	787.96	Joback Method
cpg	317.34	J/molxK	828.90	Joback Method
cpg	324.25	J/molxK	869.83	Joback Method
dvisc	0.0001275	Paxs	479.71	Joback Method
dvisc	0.0000676	Paxs	503.80	Joback Method
dvisc	0.0000380	Paxs	527.88	Joback Method
dvisc	0.0000224	Paxs	551.97	Joback Method
dvisc	0.0000138	Paxs	576.06	Joback Method
dvisc	0.0000089	Paxs	600.14	Joback Method
dvisc	0.0000059	Paxs	624.23	Joback Method

## Sources

<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.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=C89849&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C89849&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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.cheméo.com/cid/50-042-9/Ethanone-1-2-4-dihydroxyphenyl.pdf>

Generated by Cheméo on 2024-04-24 05:00:17.014394986 +0000 UTC m=+16224065.934972319.

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