

# Ethanone, 1-(2,4,6-trihydroxyphenyl)-

<b>Other names:</b>	Acetophenone, 2',4',6'-trihydroxy- Acetophloroglucine Acetylphloroglucinol Phloracetophenone 1-(2,4,6-Trihydroxyphenyl)ethanone 2',4',6'-Trihydroxyacetophenone 2,4,6-Trihydroxyacetophenone Phloracetophenone Phloracetophene NSC 54927
<b>Inchi:</b>	InChI=1S/C8H8O4/c1-4(9)8-6(11)2-5(10)3-7(8)12/h2-3,10-12H,1H3
<b>InchiKey:</b>	XLEYFDVVXLMULC-UHFFFAOYSA-N
<b>Formula:</b>	C8H8O4
<b>SMILES:</b>	CC(=O)c1c(O)cc(O)cc1O
<b>Mol. weight [g/mol]:</b>	168.15
<b>CAS:</b>	480-66-0

## Physical Properties

Property code	Value	Unit	Source
gf	-463.89	kJ/mol	Joback Method
hf	-616.43	kJ/mol	Joback Method
hfus	29.46	kJ/mol	Joback Method
hvap	81.47	kJ/mol	Joback Method
log10ws	-0.78		Crippen Method
logp	1.006		Crippen Method
mcvol	119.000	ml/mol	McGowan Method
pc	7627.62	kPa	Joback Method
tb	704.85	K	Joback Method
tc	958.07	K	Joback Method
tf	591.43	K	Joback Method
vc	0.280	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	314.57	J/mol×K	704.85	Joback Method
cpg	322.12	J/mol×K	747.05	Joback Method
cpg	329.41	J/mol×K	789.26	Joback Method
cpg	336.67	J/mol×K	831.46	Joback Method
cpg	344.12	J/mol×K	873.67	Joback Method
cpg	351.99	J/mol×K	915.87	Joback Method
cpg	360.50	J/mol×K	958.07	Joback Method
dvisc	0.0000027	Paxs	591.43	Joback Method
dvisc	0.0000017	Paxs	610.33	Joback Method
dvisc	0.0000011	Paxs	629.24	Joback Method
dvisc	0.0000007	Paxs	648.14	Joback Method
dvisc	0.0000005	Paxs	667.04	Joback Method
dvisc	0.0000003	Paxs	685.95	Joback Method
dvisc	0.0000002	Paxs	704.85	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=C480660&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C480660&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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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