

# Paroxypropione

**Other names:**

- 1-(4-hydroxyphenyl)-1-propanone
- 1-(4-hydroxyphenyl)propan-1-one
- 1-(p-Hydroxyphenyl)-1-Propanone
- 1-Propanone, 1-(4-hydroxyphenyl)-
- 4'-hydroxypropiophenone
- 4-Hydroxypropiophenon
- 4-Hydroxypropiophenone
- 4-Propanoylphenol
- 4-Propionylphenol
- B 360
- Bio-Fren
- Ethyl p-hydroxyphenyl ketone
- Frenantol
- Frenohypon
- Frenon
- Frenormon
- H-365
- Hydroxypropiophenone
- Hypophenon
- Hypostat
- Ibiopopp
- Mepal
- NSC-2834
- P.O.P.
- POP
- Paroxon
- Paroxypropion
- Possipion
- Possipione
- Profenone
- Propiophenone, 4'-hydroxy-
- Proxiphenon
- Sterofenon
- USAF EK-3302
- p-Hydroxyphenyl-1-propanone
- p-Oxypropiophenone
- p-Propionylphenol
- p-Propiophenol
- p-hydroxypropiophenone
- para-Hydroxypropiophenone

**Inchi:** InChI=1S/C9H10O2/c1-2-9(11)7-3-5-8(10)6-4-7/h3-6,10H,2H2,1H3  
**InchiKey:** RARSHUDCJQSEFJ-UHFFFAOYSA-N  
**Formula:** C9H10O2  
**SMILES:** CCC(=O)c1ccc(O)cc1  
**Mol. weight [g/mol]:** 150.17  
**CAS:** 70-70-2

## Physical Properties

Property code	Value	Unit	Source
gf	-146.23	kJ/mol	Joback Method
hf	-282.45	kJ/mol	Joback Method
hfus	20.49	kJ/mol	Joback Method
hvap	57.66	kJ/mol	Joback Method
log10ws	-2.10		Crippen Method
logp	1.985		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	4222.04	kPa	Joback Method
tb	566.49	K	Joback Method
tc	797.35	K	Joback Method
tf	421.60	K	Thermochemistry of 4-HOC6H4COR (R = H, CH3, C2H5, n-C3H7, n-C4H9, n-C5H11, and n-C6H13) compounds
vc	0.404	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.64	J/molxK	566.49	Joback Method
cpg	293.13	J/molxK	604.97	Joback Method
cpg	303.76	J/molxK	643.44	Joback Method
cpg	313.62	J/molxK	681.92	Joback Method
cpg	322.80	J/molxK	720.40	Joback Method
cpg	331.37	J/molxK	758.87	Joback Method
cpg	339.41	J/molxK	797.35	Joback Method
dvisc	0.0017635	Paxs	379.26	Joback Method
dvisc	0.0007989	Paxs	410.46	Joback Method

dvisc	0.0004047	Paxs	441.67	Joback Method
dvisc	0.0002243	Paxs	472.88	Joback Method
dvisc	0.0001337	Paxs	504.08	Joback Method
dvisc	0.0000847	Paxs	535.28	Joback Method
dvisc	0.0000564	Paxs	566.49	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C70702&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C70702&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Thermochemistry of 4-HOC6H4COR (R = H, CH3, C2H5, n-C3H7, n-C4H9, n-C6H13) compounds:</b>	<a href="https://www.doi.org/10.1016/j.jct.2016.09.026">https://www.doi.org/10.1016/j.jct.2016.09.026</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>

## 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

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