

Acetophenone, 4'-hydroxy-

Other names:	1-(4-Hydroxyphenyl)ethanone 4'-hydroxyacetophenone 4-Hydroksyacetofenol 4-acetylphenol 4-hydroxyacetophenone 4-hydroxyphenyl methyl ketone Acetophenone, p-hydroxy- Ethanone, 1-(4-hydroxyphenyl)- Hydroxyacetophenone, para Methyl p-hydroxyphenyl ketone NSC 3698 Phenol, p-acetyl- Piceol USAF KF-15 p-Acetylphenol p-Hydroxyacetophenone p-Hydroxyphenyl methyl ketone p-Oxyacetophenone para-Hydroxyacetophenone phenol, 4-acetyl-
Inchi:	InChI=1S/C8H8O2/c1-6(9)7-2-4-8(10)5-3-7/h2-5,10H,1H3
InchiKey:	TXFPEBPIARQUIG-UHFFFAOYSA-N
Formula:	C8H8O2
SMILES:	CC(=O)c1ccc(O)cc1
Mol. weight [g/mol]:	136.15
CAS:	99-93-4

Physical Properties

Property code	Value	Unit	Source
affp	883.70	kJ/mol	NIST Webbook
basg	851.90	kJ/mol	NIST Webbook
chs	-3927.10 ± 4.20	kJ/mol	NIST Webbook
gf	-154.65	kJ/mol	Joback Method
hf	-261.81	kJ/mol	Joback Method

hfus	17.03	kJ/mol	Solid liquid equilibria for binary mixtures of N-phenylacetamide with 4-aminoacetophenone, 3-hydroxyacetophenone and 4-hydroxyacetophenone
hvap	55.44	kJ/mol	
ie	8.70 ± 0.03	eV	NIST Webbook
log10ws	-1.68		Crippen Method
logp	1.595		Crippen Method
mcvol	107.260	ml/mol	McGowan Method
pc	4802.50	kPa	Joback Method
rinpol	1442.00		NIST Webbook
rinpol	1447.00		NIST Webbook
rinpol	1490.70		NIST Webbook
ripol	1790.00		NIST Webbook
ripol	1786.00		NIST Webbook
ripol	1790.00		NIST Webbook
ripol	1779.00		NIST Webbook
tb	543.61	K	Joback Method
tc	779.06	K	Joback Method
tf	379.65 ± 2.00	K	NIST Webbook
tf	311.00 ± 3.00	K	NIST Webbook
tf	383.00 ± 2.00	K	NIST Webbook
vc	0.347	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	275.11	J/mol×K	700.57	Joback Method
cpg	289.93	J/mol×K	779.06	Joback Method
cpg	282.77	J/mol×K	739.81	Joback Method
cpg	237.80	J/mol×K	543.61	Joback Method
cpg	248.30	J/mol×K	582.85	Joback Method
cpg	257.96	J/mol×K	622.09	Joback Method
cpg	266.87	J/mol×K	661.33	Joback Method
dvisc	0.0000704	Pa×s	543.61	Joback Method
dvisc	0.0001656	Pa×s	485.07	Joback Method
dvisc	0.0001054	Pa×s	514.34	Joback Method
dvisc	0.0020779	Pa×s	367.99	Joback Method
dvisc	0.0009601	Pa×s	397.26	Joback Method
dvisc	0.0004932	Pa×s	426.53	Joback Method

logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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