

Ethanone, 1-(4-hydroxyphenyl)-2-phenyl-

Other names:	Acetophenone, 4'-hydroxy-2-phenyl- Benzyl p-hydroxyphenyl ketone 4-Hydroxydeoxybenzoin 4'-Hydroxy-2-phenylacetophenone p-(Phenylacetyl)phenol Benzyl 4-hydroxyphenyl ketone 4-Hydroxydesoxybenzoin 1-(4-Hydroxyphenyl)-2-phenylethanone NSC 60474
Inchi:	InChI=1S/C14H12O2/c15-13-8-6-12(7-9-13)14(16)10-11-4-2-1-3-5-11/h1-9,15H,10H2
InchiKey:	JBQTZLNCDIFCCO-UHFFFAOYSA-N
Formula:	C14H12O2
SMILES:	O=C(Cc1ccccc1)c1ccc(O)cc1
Mol. weight [g/mol]:	212.24
CAS:	2491-32-9

Physical Properties

Property code	Value	Unit	Source
gf	8.28	kJ/mol	Joback Method
hf	-149.12	kJ/mol	Joback Method
hfus	27.48	kJ/mol	Joback Method
hvap	71.07	kJ/mol	Joback Method
log10ws	-3.29		Crippen Method
logp	2.818		Crippen Method
mcvol	168.040	ml/mol	McGowan Method
pc	3509.58	kPa	Joback Method
tb	707.57	K	Joback Method
tc	961.85	K	Joback Method
tf	462.03	K	Joback Method
vc	0.576	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	439.93	J/molxK	707.57	Joback Method
cpg	497.94	J/molxK	919.47	Joback Method
cpg	487.85	J/molxK	877.09	Joback Method
cpg	477.15	J/molxK	834.71	Joback Method
cpg	465.70	J/molxK	792.33	Joback Method
cpg	453.34	J/molxK	749.95	Joback Method
cpg	507.58	J/molxK	961.85	Joback Method
dvisc	0.0000168	Paxs	707.57	Joback Method
dvisc	0.0000247	Paxs	666.65	Joback Method
dvisc	0.0000383	Paxs	625.72	Joback Method
dvisc	0.0000630	Paxs	584.80	Joback Method
dvisc	0.0001118	Paxs	543.88	Joback Method
dvisc	0.0002177	Paxs	502.95	Joback Method
dvisc	0.0004769	Paxs	462.03	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2491329&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

vc: Critical Volume

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