

Methanone, (1-hydroxycyclohexyl)phenyl-

Other names:	1-Hydroxycyclohexyl phenyl ketone Irgacure 184 1-Benzoylcyclohexanol 1-Hydroxycyclohexyl-1-phenyl methanone Irgacure 184 (1-Hydroxycyclohexyl-1-phenyl methanone) hydroxycyclohexyl phenyl ketone
Inchi:	InChI=1S/C13H16O2/c14-12(11-7-3-1-4-8-11)13(15)9-5-2-6-10-13/h1,3-4,7-8,15H,2,5-6,
InchiKey:	QNODIIQQMGDSEF-UHFFFAOYSA-N
Formula:	C13H16O2
SMILES:	O=C(c1cccc1)C1(O)CCCCC1
Mol. weight [g/mol]:	204.26
CAS:	947-19-3

Physical Properties

Property code	Value	Unit	Source
gf	-75.79	kJ/mol	Joback Method
hf	-270.37	kJ/mol	Joback Method
hfus	14.69	kJ/mol	Joback Method
hvap	69.51	kJ/mol	Joback Method
log10ws	-3.49		Crippen Method
logp	2.565		Crippen Method
mcvol	166.850	ml/mol	McGowan Method
pc	3341.24	kPa	Joback Method
rinpol	1687.00		NIST Webbook
tb	689.36	K	Joback Method
tc	920.70	K	Joback Method
tf	404.72	K	Joback Method
vc	0.612	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.98	J/molxK	689.36	Joback Method
cpg	478.41	J/molxK	727.92	Joback Method

cpg	492.95	J/mol×K	766.47	Joback Method
cpg	506.78	J/mol×K	805.03	Joback Method
cpg	520.05	J/mol×K	843.58	Joback Method
cpg	532.93	J/mol×K	882.14	Joback Method
cpg	545.58	J/mol×K	920.70	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C947193&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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