

# 1-Phenylcyclopentanol-1

<b>Other names:</b>	Cyclopentanol, 1-phenyl- 1-Phenylcyclopentanol Benzene, cyclopent-1-yl-1-ol-
<b>Inchi:</b>	InChI=1S/C11H14O/c12-11(8-4-5-9-11)10-6-2-1-3-7-10/h1-3,6-7,12H,4-5,8-9H2
<b>InchiKey:</b>	ITHZGJVAQFFNCZ-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O
<b>SMILES:</b>	OC1(c2ccccc2)CCCC1
<b>Mol. weight [g/mol]:</b>	162.23
<b>CAS:</b>	10487-96-4

## Physical Properties

Property code	Value	Unit	Source
gf	48.39	kJ/mol	Joback Method
hf	-110.35	kJ/mol	Joback Method
hfus	10.01	kJ/mol	Joback Method
hvap	58.14	kJ/mol	Joback Method
ie	8.00	eV	NIST Webbook
log10ws	-2.86		Crippen Method
logp	2.448		Crippen Method
mcvol	137.100	ml/mol	McGowan Method
pc	3782.33	kPa	Joback Method
tb	585.46	K	Joback Method
tc	811.58	K	Joback Method
tf	335.77	K	Joback Method
vc	0.501	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.09	J/mol×K	585.46	Joback Method
cpg	359.18	J/mol×K	623.15	Joback Method
cpg	373.22	J/mol×K	660.83	Joback Method
cpg	386.34	J/mol×K	698.52	Joback Method
cpg	398.71	J/mol×K	736.20	Joback Method

cpg	410.49	J/mol×K	773.89	Joback Method
cpg	421.84	J/mol×K	811.58	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	405.70	K	2.40	NIST Webbook

## Sources

<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=C10487964&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10487964&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>ie:</b>	Ionization energy
<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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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