

# Cyclobutanol, 1-phenyl-

<b>Other names:</b>	Benzene,cyclobut-1-yl-1-ol-
<b>Inchi:</b>	InChI=1S/C10H12O/c11-10(7-4-8-10)9-5-2-1-3-6-9/h1-3,5-6,11H,4,7-8H2
<b>InchiKey:</b>	LHXASHUXCRQHPZ-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O
<b>SMILES:</b>	OC1(c2ccccc2)CCC1
<b>Mol. weight [g/mol]:</b>	148.20
<b>CAS:</b>	935-64-8

## Physical Properties

Property code	Value	Unit	Source
gf	52.07	kJ/mol	Joback Method
hf	-83.55	kJ/mol	Joback Method
hfus	9.52	kJ/mol	Joback Method
hvap	55.74	kJ/mol	Joback Method
ie	8.00	eV	NIST Webbook
log10ws	-2.44		Crippen Method
logp	2.058		Crippen Method
mcvol	123.010	ml/mol	McGowan Method
pc	4135.61	kPa	Joback Method
tb	558.31	K	Joback Method
tc	780.73	K	Joback Method
tf	312.60 ± 1.00	K	NIST Webbook
vc	0.454	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.44	J/molxK	558.31	Joback Method
cpg	309.99	J/molxK	595.38	Joback Method
cpg	322.51	J/molxK	632.45	Joback Method
cpg	334.16	J/molxK	669.52	Joback Method
cpg	345.08	J/molxK	706.59	Joback Method
cpg	355.44	J/molxK	743.66	Joback Method
cpg	365.38	J/molxK	780.73	Joback Method

# 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=C935648&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C935648&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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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