

# Cyclohexanol, 4-phenyl-

<b>Other names:</b>	4-Phenylcyclohexanol 4-Phenylcyclohexanol,c&t 4-phenylcyclohexan-1-ol
<b>Inchi:</b>	InChI=1S/C12H16O/c13-12-8-6-11(7-9-12)10-4-2-1-3-5-10/h1-5,11-13H,6-9H2
<b>InchiKey:</b>	YVVUSIMLVPJXMY-UHFFFAOYSA-N
<b>Formula:</b>	C12H16O
<b>SMILES:</b>	OC1CCC(c2ccccc2)CC1
<b>Mol. weight [g/mol]:</b>	176.25
<b>CAS:</b>	5437-46-7

## Physical Properties

Property code	Value	Unit	Source
gf	42.49	kJ/mol	Joback Method
hf	-172.73	kJ/mol	Joback Method
hfus	17.87	kJ/mol	Joback Method
hvap	61.38	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	2.705		Crippen Method
mcvol	151.190	ml/mol	McGowan Method
pc	3173.97	kPa	Joback Method
tb	607.70	K	Joback Method
tc	828.54	K	Joback Method
tf	315.38	K	Joback Method
vc	0.550	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.39	J/mol×K	607.70	Joback Method
cpg	415.76	J/mol×K	644.51	Joback Method
cpg	431.98	J/mol×K	681.31	Joback Method
cpg	447.07	J/mol×K	718.12	Joback Method
cpg	461.09	J/mol×K	754.93	Joback Method
cpg	474.08	J/mol×K	791.73	Joback Method

cpg	486.08	J/mol×K	828.54	Joback Method
dvisc	0.0096489	Paxs	315.38	Joback Method
dvisc	0.0026230	Paxs	364.10	Joback Method
dvisc	0.0009697	Paxs	412.82	Joback Method
dvisc	0.0004423	Paxs	461.54	Joback Method
dvisc	0.0002344	Paxs	510.26	Joback Method
dvisc	0.0001387	Paxs	558.98	Joback Method
dvisc	0.0000893	Paxs	607.70	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<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=C5437467&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5437467&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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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