

# Cyclohexanol, 2-butyl-

<b>Inchi:</b>	InChI=1S/C10H20O/c1-2-3-6-9-7-4-5-8-10(9)11/h9-11H,2-8H2,1H3
<b>InchiKey:</b>	LVDALGYBEFALAP-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O
<b>SMILES:</b>	CCCCC1CCCCC1O
<b>Mol. weight [g/mol]:</b>	156.27
<b>CAS:</b>	36159-49-6

## Physical Properties

Property code	Value	Unit	Source
gf	-86.76	kJ/mol	Joback Method
hf	-367.98	kJ/mol	Joback Method
hfus	18.65	kJ/mol	Joback Method
hvap	54.65	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.728		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2729.71	kPa	Joback Method
tb	535.26	K	Joback Method
tc	721.21	K	Joback Method
tf	266.42	K	Joback Method
vc	0.546	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.43	J/molxK	535.26	Joback Method
cpg	386.13	J/molxK	566.25	Joback Method
cpg	402.05	J/molxK	597.24	Joback Method
cpg	417.20	J/molxK	628.24	Joback Method
cpg	431.60	J/molxK	659.23	Joback Method
cpg	445.27	J/molxK	690.22	Joback Method
cpg	458.23	J/molxK	721.21	Joback Method
dvisc	0.0295183	Paxs	266.42	Joback Method
dvisc	0.0063338	Paxs	311.23	Joback Method

dvisc	0.0020021	Paxs	356.03	Joback Method
dvisc	0.0008187	Paxs	400.84	Joback Method
dvisc	0.0004007	Paxs	445.65	Joback Method
dvisc	0.0002235	Paxs	490.45	Joback Method
dvisc	0.0001375	Paxs	535.26	Joback Method

## Sources

<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=C36159496&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C36159496&amp;Units=SI</a>
<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>

## 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>mccvol:</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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