

# Cyclohexanol, 4-sec-butyl-

<b>Inchi:</b>	InChI=1S/C10H20O/c1-3-8(2)9-4-6-10(11)7-5-9/h8-11H,3-7H2,1-2H3
<b>InchiKey:</b>	NSMFWUVWJSHYTR-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O
<b>SMILES:</b>	CCC(C)C1CCC(O)CC1
<b>Mol. weight [g/mol]:</b>	156.27
<b>CAS:</b>	6292-20-2

## Physical Properties

Property code	Value	Unit	Source
gf	-89.20	kJ/mol	Joback Method
hf	-373.26	kJ/mol	Joback Method
hfus	15.13	kJ/mol	Joback Method
hvap	54.27	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.584		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2752.67	kPa	Joback Method
tb	534.82	K	Joback Method
tc	724.56	K	Joback Method
tf	251.42	K	Joback Method
vc	0.540	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.68	J/molxK	534.82	Joback Method
cpg	386.79	J/molxK	566.44	Joback Method
cpg	403.07	J/molxK	598.07	Joback Method
cpg	418.54	J/molxK	629.69	Joback Method
cpg	433.23	J/molxK	661.32	Joback Method
cpg	447.15	J/molxK	692.94	Joback Method
cpg	460.33	J/molxK	724.56	Joback Method
dvisc	0.0567840	Paxs	251.42	Joback Method
dvisc	0.0092425	Paxs	298.65	Joback Method

dvisc	0.0024699	Paxs	345.89	Joback Method
dvisc	0.0009064	Paxs	393.12	Joback Method
dvisc	0.0004124	Paxs	440.35	Joback Method
dvisc	0.0002186	Paxs	487.59	Joback Method
dvisc	0.0001296	Paxs	534.82	Joback Method

## Sources

<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=C6292202&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6292202&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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