

# Cyclohexene,3-butyl-

<b>Other names:</b>	3-Butylcyclohexene 3-Butylcyclohexene-1 3-butyl-1-cyclohexene
<b>Inchi:</b>	InChI=1S/C10H18/c1-2-3-7-10-8-5-4-6-9-10/h5,8,10H,2-4,6-7,9H2,1H3
<b>InchiKey:</b>	DPWVJRLEBPJBSR-UHFFFAOYSA-N
<b>Formula:</b>	C10H18
<b>SMILES:</b>	CCCCC1C=CCCC1
<b>Mol. weight [g/mol]:</b>	138.25
<b>CAS:</b>	3983-07-1

## Physical Properties

Property code	Value	Unit	Source
gf	87.73	kJ/mol	Joback Method
hf	-137.63	kJ/mol	Joback Method
hfus	14.71	kJ/mol	Joback Method
hvap	38.58	kJ/mol	Joback Method
ie	8.80 ± 0.02	eV	NIST Webbook
log10ws	-3.52		Crippen Method
logp	3.533		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2665.27	kPa	Joback Method
rinpol	1042.00		NIST Webbook
rinpol	1036.00		NIST Webbook
rinpol	1046.00		NIST Webbook
rinpol	1041.50		NIST Webbook
rinpol	1082.00		NIST Webbook
rinpol	1036.00		NIST Webbook
rinpol	1074.00		NIST Webbook
rinpol	1045.00		NIST Webbook
rinpol	995.60		NIST Webbook
rinpol	991.40		NIST Webbook
rinpol	1041.00		NIST Webbook
rinpol	1035.90		NIST Webbook
ripol	1184.00		NIST Webbook
ripol	1161.80		NIST Webbook
ripol	1193.00		NIST Webbook
ripol	1204.00		NIST Webbook

ripol	1209.00		NIST Webbook
ripol	1172.00		NIST Webbook
ripol	1182.00		NIST Webbook
ripol	1179.00		NIST Webbook
ripol	1158.80		NIST Webbook
ripol	1189.00		NIST Webbook
ripol	1195.00		NIST Webbook
ripol	1167.00		NIST Webbook
ripol	1173.00		NIST Webbook
ripol	1178.60		NIST Webbook
ripol	1183.80		NIST Webbook
ripol	1188.80		NIST Webbook
ripol	1194.80		NIST Webbook
ripol	1167.20		NIST Webbook
ripol	1172.90		NIST Webbook
ripol	1193.00		NIST Webbook
ripol	1192.90		NIST Webbook
ripol	1171.90		NIST Webbook
ripol	1182.90		NIST Webbook
ripol	1192.90		NIST Webbook
ripol	1171.90		NIST Webbook
ripol	1182.90		NIST Webbook
ripol	1151.50		NIST Webbook
ripol	1209.00		NIST Webbook
ripol	1189.00		NIST Webbook
ripol	1151.50		NIST Webbook
ripol	1193.00		NIST Webbook
ripol	1171.90		NIST Webbook
ripol	1183.80		NIST Webbook
tb	446.91	K	Joback Method
tc	645.71	K	Joback Method
tf	210.60	K	Joback Method
vc	0.514	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.10	J/molxK	446.91	Joback Method
cpg	303.42	J/molxK	480.04	Joback Method
cpg	320.83	J/molxK	513.18	Joback Method
cpg	337.36	J/molxK	546.31	Joback Method

cpg	353.03	J/molxK	579.44	Joback Method
cpg	367.88	J/molxK	612.57	Joback Method
cpg	381.92	J/molxK	645.71	Joback Method
dvisc	0.0063747	Paxs	210.60	Joback Method
dvisc	0.0024458	Paxs	249.99	Joback Method
dvisc	0.0012179	Paxs	289.37	Joback Method
dvisc	0.0007168	Paxs	328.75	Joback Method
dvisc	0.0004725	Paxs	368.14	Joback Method
dvisc	0.0003376	Paxs	407.52	Joback Method
dvisc	0.0002559	Paxs	446.91	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=C3983071&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3983071&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>

## 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>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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<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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