

Cyclohexene, 1-butyl-

Other names:	1-Butyl-1-cyclohexene 1-Butylcyclohexene
Inchi:	InChI=1S/C10H18/c1-2-3-7-10-8-5-4-6-9-10/h8H,2-7,9H2,1H3
InchiKey:	INNYVOGDZSDNIP-UHFFFAOYSA-N
Formula:	C10H18
SMILES:	CCCCC1=CCCCC1
Mol. weight [g/mol]:	138.25
CAS:	3282-53-9

Physical Properties

Property code	Value	Unit	Source
gf	85.81	kJ/mol	Joback Method
hf	-128.76	kJ/mol	Joback Method
hfus	13.25	kJ/mol	Joback Method
hvap	39.55	kJ/mol	Joback Method
log10ws	-3.76		Crippen Method
logp	3.677		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2715.50	kPa	Joback Method
tb	456.56	K	Joback Method
tc	657.05	K	Joback Method
tf	227.36	K	Joback Method
vc	0.515	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.57	J/mol×K	456.56	Joback Method
cpg	304.11	J/mol×K	489.97	Joback Method
cpg	320.77	J/mol×K	523.39	Joback Method
cpg	336.58	J/mol×K	556.80	Joback Method
cpg	351.57	J/mol×K	590.22	Joback Method
cpg	365.76	J/mol×K	623.63	Joback Method
cpg	379.19	J/mol×K	657.05	Joback Method

dvisc	0.0062530	Pa×s	227.36	Joback Method
dvisc	0.0024562	Pa×s	265.56	Joback Method
dvisc	0.0012204	Pa×s	303.76	Joback Method
dvisc	0.0007089	Pa×s	341.96	Joback Method
dvisc	0.0004593	Pa×s	380.16	Joback Method
dvisc	0.0003221	Pa×s	418.36	Joback Method
dvisc	0.0002398	Pa×s	456.56	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3282539&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
KDB:	https://www.cheric.org/files/research/kdb/mol/mol650.mol

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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