

Cyclohexane, 3-butenyl

Other names:	3-Butenylcyclohexane
Inchi:	InChI=1S/C10H18/c1-2-3-7-10-8-5-4-6-9-10/h2,10H,1,3-9H2
InchiKey:	LXAHJTLFCWQKCR-UHFFFAOYSA-N
Formula:	C10H18
SMILES:	C=CCCC1CCCCC1
Mol. weight [g/mol]:	138.25

Physical Properties

Property code	Value	Unit	Source
gf	145.61	kJ/mol	Joback Method
hf	-69.98	kJ/mol	Joback Method
hfus	12.21	kJ/mol	Joback Method
hvap	37.61	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	3.533		Crippen Method
mvol	136.600	ml/mol	McGowan Method
pc	2681.86	kPa	Joback Method
rinpol	1025.00		NIST Webbook
rinpol	1024.70		NIST Webbook
tb	444.43	K	Joback Method
tc	645.57	K	Joback Method
tf	208.08	K	Joback Method
vc	0.509	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.04	J/mol×K	444.43	Joback Method
cpg	302.02	J/mol×K	477.95	Joback Method
cpg	320.04	J/mol×K	511.48	Joback Method
cpg	337.12	J/mol×K	545.00	Joback Method
cpg	353.29	J/mol×K	578.53	Joback Method
cpg	368.58	J/mol×K	612.05	Joback Method
cpg	383.03	J/mol×K	645.57	Joback Method

dvisc	0.0075235	Paxs	208.08	Joback Method
dvisc	0.0027594	Paxs	247.47	Joback Method
dvisc	0.0013331	Paxs	286.86	Joback Method
dvisc	0.0007677	Paxs	326.25	Joback Method
dvisc	0.0004979	Paxs	365.65	Joback Method
dvisc	0.0003513	Paxs	405.04	Joback Method
dvisc	0.0002637	Paxs	444.43	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R119452&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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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