Cyclohexane, 1-butenylidene-

Other names: 1-butenylidene-cyclohexane
Inchi: InChI=1S/C10H16/c1-2-3-7-10-8-5-4-6-9-10/h3H,2,4-6,8-9H2,1H3
InchiKey: MGPIPVFMXURLAG-UHFFFAOYSA-N
Formula: C10H16
SMILES: CCC=C=C1CCCCC1
Mol. weight [g/mol]: 136.23
CAS: 36144-40-8

Physical Properties

Property code	Value	Unit	Source
gf	239.22	kJ/mol	Joback Method
hf	63.74	kJ/mol	Joback Method
hfus	14.87	kJ/mol	Joback Method
hvap	39.81	kJ/mol	Joback Method
log10ws	-3.63		Crippen Method
logp	3.442		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	3022.28	kPa	Joback Method
tb	462.33	K	Joback Method
tc	679.77	K	Joback Method
tf	230.95	K	Joback Method
vc	0.492	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.78	J/mol×K	462.33	Joback Method
cpg	291.23	J/mol×K	498.57	Joback Method
cpg	307.77	J/mol×K	534.81	Joback Method
cpg	323.43	J/mol×K	571.05	Joback Method
cpg	338.24	J/mol×K	607.29	Joback Method
cpg	352.22	J/mol×K	643.53	Joback Method
cpg	365.40	J/mol×K	679.77	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C36144408&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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