

Cyclohexane, 1-methyl-3-(1-methylethylidene)-

Other names:	m-Menth-3(8)-ene
Inchi:	InChI=1S/C10H18/c1-8(2)10-6-4-5-9(3)7-10/h9H,4-7H2,1-3H3
InchiKey:	NBSQIOVLBNJEFJ-UHFFFAOYSA-N
Formula:	C10H18
SMILES:	CC(C)=C1CCCC(C)C1
Mol. weight [g/mol]:	138.25
CAS:	13828-34-7

Physical Properties

Property code	Value	Unit	Source
gf	94.68	kJ/mol	Joback Method
hf	-129.17	kJ/mol	Joback Method
hfus	12.50	kJ/mol	Joback Method
hvap	39.15	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	3.533		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
tb	454.27	K	Joback Method
tc	662.43	K	Joback Method
tf	206.24	K	Joback Method
vc	0.512	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.34	J/mol×K	454.27	Joback Method
cpg	305.04	J/mol×K	488.96	Joback Method
cpg	322.79	J/mol×K	523.66	Joback Method
cpg	339.62	J/mol×K	558.35	Joback Method
cpg	355.55	J/mol×K	593.04	Joback Method
cpg	370.62	J/mol×K	627.74	Joback Method
cpg	384.85	J/mol×K	662.43	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
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=C13828347&Units=SI

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
h vap:	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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