

Cyclohexene, 4-methyl-1-(1-methylethyl)-, (R)-

Other names:	p-Menth-3-ene, (R)-(+)- (+)-3-Menthene 1-Isopropyl-4-methyl-1-cyclohexene, (R)-
Inchi:	InChI=1S/C10H18/c1-8(2)10-6-4-9(3)5-7-10/h6,8-9H,4-5,7H2,1-3H3/t9-/m1/s1
InchiKey:	YYCPSEFQLGXPCO-SECBINFHSA-N
Formula:	C10H18
SMILES:	CC1CC=C(C(C)C)CC1
Mol. weight [g/mol]:	138.25
CAS:	619-52-3

Physical Properties

Property code	Value	Unit	Source
gf	75.66	kJ/mol	Joback Method
hf	-154.38	kJ/mol	Joback Method
hfus	10.80	kJ/mol	Joback Method
hvap	38.85	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	3.389		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2646.11	kPa	Joback Method
tb	441.20 ± 0.50	K	NIST Webbook
tc	656.32	K	Joback Method
tf	208.12	K	Joback Method
vc	0.508	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.78	J/mol×K	451.45	Joback Method
cpg	305.15	J/mol×K	485.59	Joback Method
cpg	322.63	J/mol×K	519.74	Joback Method
cpg	339.23	J/mol×K	553.88	Joback Method
cpg	354.99	J/mol×K	588.03	Joback Method
cpg	369.91	J/mol×K	622.17	Joback Method

cpg	384.04	J/mol×K	656.32	Joback Method
dvisc	0.0061732	Pa×s	208.12	Joback Method
dvisc	0.0022871	Pa×s	248.67	Joback Method
dvisc	0.0011194	Pa×s	289.23	Joback Method
dvisc	0.0006532	Pa×s	329.78	Joback Method
dvisc	0.0004288	Pa×s	370.34	Joback Method
dvisc	0.0003059	Pa×s	410.89	Joback Method
dvisc	0.0002319	Pa×s	451.45	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=C619523&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
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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