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-/m0/s1
InchiKey: YYCPSEFQLGXPCO-SECBINFHSA-N
Formula: C10H18
SMILES: CC(C)C1=CC[C@H](C)CC1
Mol. weight [g/mol]: 138.25

Physical Properties

Property code	Value	Unit	Source
hf	-87.43	kJ/mol	Cheméo Relay (1.0)
hfus	10.80	kJ/mol	Joback Method
hvap	44.37	kJ/mol	Cheméo Relay (1.0)
logp	3.389		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
tb	441.20 ± 0.50	K	NIST Webbook
tf	203.27	K	Cheméo Relay (1.0)

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

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C619523&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point