CYCLOPENTANE, 1-METHYL-3-(2-METHYL-1-PROPENYL)-

Inchi: InChI=1S/C10H18/c1-8(2)6-10-5-4-9(3)7-10/h6,9-10H,4-5,7H2,1-3H3
InchiKey: ZNVLSGKSXSJTNY-UHFFFAOYSA-N
Formula: C10H18
SMILES: CC(C)=CC1CCC(C)C1
Mol. weight [g/mol]: 138.25

Physical Properties

Property code	Value	Unit	Source
hf	-93.83	kJ/mol	Cheméo Relay (1.0)
hfus	15.55	kJ/mol	Joback Method
hvap	43.98	kJ/mol	Cheméo Relay (1.0)
ie	8.36	eV	Cheméo Relay (1.0)
logp	3.389		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
rinpol	975.00		NIST Webbook
rinpol	968.00		NIST Webbook
rinpol	972.00		NIST Webbook
rinpol	968.00		NIST Webbook
rinpol	972.00		NIST Webbook
rinpol	971.00		NIST Webbook
rinpol	969.00		NIST Webbook
rinpol	975.00		NIST Webbook
tb	443.21	K	Cheméo Relay (1.0)
tc	615.65	K	Cheméo Relay (1.0)
tf	196.67	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.79	J/mol×K	442.85	Joback Method
cpg	303.75	J/mol×K	476.58	Joback Method
cpg	321.71	J/mol×K	510.31	Joback Method
cpg	338.72	J/mol×K	544.04	Joback Method
cpg	354.80	J/mol×K	577.77	Joback Method

cpg	370.01	J/mol×K	611.50	Joback Method
cpg	384.38	J/mol×K	645.23	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
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=C75873017&Units=SI

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point