1(7),4,8-o-Menthatriene

Inchi: InChI=1S/C10H14/c1-8(2)10-7-5-4-6-9(10)3/h4-5,10H,1,3,6-7H2,2H3
InchiKey: MXGWMHHZGBYFII-UHFFFAOYSA-N
Formula: C10H14
SMILES: C=C(C)C1CC=CCC1=C
Mol. weight [g/mol]: 134.22

Physical Properties

Property code	Value	Unit	Source
gf	220.10	kJ/mol	Joback Method
hf	62.25	kJ/mol	Joback Method
hfus	10.96	kJ/mol	Joback Method
hvap	38.14	kJ/mol	Joback Method
log10ws	-3.22		Crippen Method
logp	3.085		Crippen Method
mcvol	128.000	ml/mol	McGowan Method
pc	2856.62	kPa	Joback Method
rinpol	992.00		NIST Webbook
rinpol	992.00		NIST Webbook
ripol	1151.00		NIST Webbook
ripol	1151.00		NIST Webbook
tb	442.63	K	Joback Method
tc	651.87	K	Joback Method
tf	208.56	K	Joback Method
vc	0.480	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	253.68	J/mol×K	442.63	Joback Method
cpg	270.20	J/mol×K	477.50	Joback Method
cpg	285.83	J/mol×K	512.38	Joback Method
cpg	300.62	J/mol×K	547.25	Joback Method
cpg	314.59	J/mol×K	582.12	Joback Method
cpg	327.76	J/mol×K	617.00	Joback Method

cpg	340.17	J/mol×K	651.87	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R519892&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume