m-Menth-6-ene, (R)-(+)-

Other names: m-Menth-6-ene
Inchi: InChI=1S/C10H18/c1-8(2)10-6-4-5-9(3)7-10/h5,8,10H,4,6-7H2,1-3H3/t10-/m1/s1
InchiKey: XLXFKTBBODPBMN-SNVBAGLBSA-N
Formula: C10H18
SMILES: CC1=CCCC(C(C)C)C1
Mol. weight [g/mol]: 138.25
CAS: 13837-70-2

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
rinpol	947.00		NIST Webbook
rinpol	947.00		NIST Webbook
tb	451.45	K	Joback Method
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

Crippen Method: https://www.chemeo.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=C13837702&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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