Sylveterpinolene

Inchi: InChI=1S/C10H16/c1-8(2)10-6-4-5-9(3)7-10/h5H,4,6-7H2,1-3H3
InchiKey: WPOQYXKDKVBMSB-UHFFFAOYSA-N
Formula: C10H16
SMILES: CC1=CCCC(=C(C)C)C1
Mol. weight [g/mol]: 136.23

Physical Properties

Property code	Value	Unit	Source
gf	122.72	kJ/mol	Joback Method
hf	-62.52	kJ/mol	Joback Method
hfus	12.27	kJ/mol	Joback Method
hvap	40.41	kJ/mol	Joback Method
log10ws	-3.61		Crippen Method
logp	3.453		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
rinpol	1116.00		NIST Webbook
tb	463.08	K	Joback Method
tc	675.06	K	Joback Method
tf	223.76	K	Joback Method
vc	0.499	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.08	J/mol×K	463.08	Joback Method
cpg	288.73	J/mol×K	498.41	Joback Method
cpg	304.49	J/mol×K	533.74	Joback Method
cpg	319.40	J/mol×K	569.07	Joback Method
cpg	333.48	J/mol×K	604.40	Joback Method
cpg	346.77	J/mol×K	639.73	Joback Method
cpg	359.30	J/mol×K	675.06	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=R410874&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume