p-Mentha-1,5,8-triene

Other names:	1,5,8-p-Menthatriene
	5-Isopropenyl-2-methyl-cyclohexa-1,3-diene
	1,5,8-Menthatriene
	p-Mentha-l,5,8-triene
Inchi:	InChI=1S/C10H14/c1-8(2)10-6-4-9(3)5-7-10/h4-6,10H,1,7H2,2-3H3
InchiKey:	NJLNIOKPXKKALD-UHFFFAOYSA-N
Formula:	C10H14
SMILES:	C=C(C)C1C=CC(C)=CC1
Mol. weight [g/mol]:	134.22

Physical Properties

Property code	Value	Unit	Source
gf	187.35	kJ/mol	Joback Method
hf	24.32	kJ/mol	Joback Method
hfus	12.96	kJ/mol	Joback Method
hvap	38.94	kJ/mol	Joback Method
log10ws	-3.22		Crippen Method
logp	3.085		Crippen Method
mcvol	128.000	ml/mol	McGowan Method
pc	2862.74	kPa	Joback Method
rinpol	1128.00		NIST Webbook
rinpol	1135.00		NIST Webbook
rinpol	1097.00		NIST Webbook
rinpol	1135.00		NIST Webbook
rinpol	1119.00		NIST Webbook
rinpol	1108.00		NIST Webbook
rinpol	1113.00		NIST Webbook
rinpol	1127.00		NIST Webbook
ripol	1210.00		NIST Webbook
ripol	1224.00		NIST Webbook
ripol	1216.00		NIST Webbook
tb	447.61	K	Joback Method
tc	658.48	K	Joback Method
tf	208.16	K	Joback Method
vc	0.482	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.01	J/mol×K	447.61	Joback Method
cpg	271.37	J/mol×K	482.76	Joback Method
cpg	286.85	J/mol×K	517.90	Joback Method
cpg	301.46	J/mol×K	553.05	Joback Method
cpg	315.25	J/mol×K	588.19	Joback Method
cpg	328.25	J/mol×K	623.34	Joback Method
cpg	340.48	J/mol×K	658.48	Joback Method

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R204436&Units=SI

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