1-Isopropenyl-4-methyl-cyclohexa-1,4-diene

Other names: 1,4,8-p-Menthatriene
Mentha-1,4,8-triene
p-mentha-1,4,8-triene
Inchi: InChI=1S/C10H14/c1-8(2)10-6-4-9(3)5-7-10/h4,7H,1,5-6H2,2-3H3
InchiKey: SCBBUPSCKNUDCO-UHFFFAOYSA-N
Formula: C10H14
SMILES: C=C(C)C1=CCC(C)=CC1
Mol. weight [g/mol]: 134.22

Physical Properties

Property code	Value	Unit	Source
gf	185.43	kJ/mol	Joback Method
hf	33.19	kJ/mol	Joback Method
hfus	11.50	kJ/mol	Joback Method
hvap	39.91	kJ/mol	Joback Method
log10ws	-3.46		Crippen Method
logp	3.229		Crippen Method
mcvol	128.000	ml/mol	McGowan Method
pc	2918.68	kPa	Joback Method
rinpol	1167.00		NIST Webbook
tb	457.26	K	Joback Method
tc	669.85	K	Joback Method
tf	224.92	K	Joback Method
vc	0.483	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.61	J/mol×K	457.26	Joback Method
cpg	271.16	J/mol×K	492.69	Joback Method
cpg	285.85	J/mol×K	528.12	Joback Method
cpg	299.72	J/mol×K	563.55	Joback Method
cpg	312.80	J/mol×K	598.99	Joback Method
cpg	325.13	J/mol×K	634.42	Joback Method

cpg	336.74	J/mol×K	669.85	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R197170&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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