

m-Mentha-1,8-diene

Other names:	1-Methyl-3-(1-methylethenyl)-cyclohexene
Inchi:	InChI=1S/C10H16/c1-8(2)10-6-4-5-9(3)7-10/h7,10H,1,4-6H2,2-3H3
InchiKey:	UXZIDIYMFIBDKT-UHFFFAOYSA-N
Formula:	C10H16
SMILES:	<chem>C=C(C)C1C=C(C)CCC1</chem>
Mol. weight [g/mol]:	136.23
CAS:	38738-60-2

Physical Properties

Property code	Value	Unit	Source
gf	157.39	kJ/mol	Joback Method
hf	-33.46	kJ/mol	Joback Method
hfus	11.73	kJ/mol	Joback Method
hvap	38.65	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.309		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2755.56	kPa	Joback Method
tb	448.00 ± 5.00	K	NIST Webbook
tb	450.00 ± 5.00	K	NIST Webbook
tb	451.00 ± 3.00	K	NIST Webbook
tb	449.00 ± 5.00	K	NIST Webbook
tc	657.16	K	Joback Method
tf	207.40	K	Joback Method
vc	0.496	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.80	J/mol×K	448.45	Joback Method
cpg	287.42	J/mol×K	483.23	Joback Method
cpg	304.13	J/mol×K	518.02	Joback Method
cpg	319.94	J/mol×K	552.80	Joback Method
cpg	334.90	J/mol×K	587.59	Joback Method

cpg	349.03	J/mol×K	622.37	Joback Method
cpg	362.36	J/mol×K	657.16	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C38738602&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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