

p-Menth-1-ene, 8,9-epoxy

Other names:	8,9-Epoxyimonene
Inchi:	InChI=1S/C10H16O/c1-8-3-5-9(6-4-8)10(2)7-11-10/h3,9H,4-7H2,1-2H3
InchiKey:	PJGRMBOWSWHGDV-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	CC1=CCC(C2(C)CO2)CC1
Mol. weight [g/mol]:	152.23

Physical Properties

Property code	Value	Unit	Source
gf	47.24	kJ/mol	Joback Method
hf	-193.06	kJ/mol	Joback Method
hfus	14.14	kJ/mol	Joback Method
hvap	42.51	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.522		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	3135.00	kPa	Joback Method
rinpol	1199.00		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1199.00		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1199.00		NIST Webbook
ripol	1562.00		NIST Webbook
tb	485.82	K	Joback Method
tc	711.15	K	Joback Method
tf	291.53	K	Joback Method
vc	0.490	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	305.80	J/mol×K	485.82	Joback Method
cpg	324.55	J/mol×K	523.38	Joback Method
cpg	341.89	J/mol×K	560.93	Joback Method

cpg	357.98	J/mol×K	598.49	Joback Method
cpg	372.97	J/mol×K	636.04	Joback Method
cpg	387.02	J/mol×K	673.60	Joback Method
cpg	400.28	J/mol×K	711.15	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R410849&Units=SI
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

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

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