

3,9-Epoxy-p-mentha-1,8(10)-diene

Inchi:	InChI=1S/C10H14O/c1-7-3-4-9-8(2)6-11-10(9)5-7/h9-10H,1-6H2
InchiKey:	XPDXSIYURCKZBY-UHFFFAOYSA-N
Formula:	C10H14O
SMILES:	C=C1CCC2C(=C)COC2C1
Mol. weight [g/mol]:	150.22

Physical Properties

Property code	Value	Unit	Source
gf	138.56	kJ/mol	Joback Method
hf	-86.13	kJ/mol	Joback Method
hfus	17.29	kJ/mol	Joback Method
hvap	43.02	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	2.298		Crippen Method
mvol	127.310	ml/mol	McGowan Method
pc	3038.96	kPa	Joback Method
rinpol	1199.00		NIST Webbook
tb	479.76	K	Joback Method
tc	696.02	K	Joback Method
tf	281.71	K	Joback Method
vc	0.474	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.45	J/molxK	479.76	Joback Method
cpg	304.76	J/molxK	515.80	Joback Method
cpg	321.06	J/molxK	551.85	Joback Method
cpg	336.38	J/molxK	587.89	Joback Method
cpg	350.77	J/molxK	623.94	Joback Method
cpg	364.27	J/molxK	659.98	Joback Method
cpg	376.92	J/molxK	696.02	Joback Method
dvisc	0.0018195	Paxs	281.71	Joback Method
dvisc	0.0013596	Paxs	314.72	Joback Method

dvisc	0.0010738	Paxs	347.73	Joback Method
dvisc	0.0008835	Paxs	380.74	Joback Method
dvisc	0.0007499	Paxs	413.74	Joback Method
dvisc	0.0006521	Paxs	446.75	Joback Method
dvisc	0.0005780	Paxs	479.76	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=U111148&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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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