

6,7-Epoxymyrcene

Inchi:	InChI=1S/C10H16O/c1-5-8(2)6-7-9-10(3,4)11-9/h5,9H,1-2,6-7H2,3-4H3
InchiKey:	DQGZGGZXMOFHLB-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	C=CC(=C)CCC1OC1(C)C
Mol. weight [g/mol]:	152.23

Physical Properties

Property code	Value	Unit	Source
gf	161.88	kJ/mol	Joback Method
hf	-72.96	kJ/mol	Joback Method
hfus	18.67	kJ/mol	Joback Method
hvap	39.56	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.686		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2613.74	kPa	Joback Method
rinqol	1092.00		NIST Webbook
tb	450.70	K	Joback Method
tc	644.70	K	Joback Method
tf	249.15	K	Joback Method
vc	0.533	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.19	J/molxK	450.70	Joback Method
cpg	316.98	J/molxK	483.03	Joback Method
cpg	331.68	J/molxK	515.37	Joback Method
cpg	345.40	J/molxK	547.70	Joback Method
cpg	358.23	J/molxK	580.03	Joback Method
cpg	370.29	J/molxK	612.36	Joback Method
cpg	381.66	J/molxK	644.70	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R626158&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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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