3,10-Epoxy-muurol-4-ene

Inchi: InChI=1S/C15H26O/c1-9(2)11-5-6-15(4)13-8-14(16-15)10(3)7-12(11)13/h9-14H,5-8H2,1-
InchiKey: JLIJXECXIQJTMB-QVZGVTLWSA-N
Formula: C15H26O
SMILES: CC(C)C1CCC2(C)OC3CC2C1CC3C
Mol. weight [g/mol]: 222.37

Physical Properties

Property code	Value	Unit	Source
gf	116.29	kJ/mol	Joback Method
hf	-329.91	kJ/mol	Joback Method
hfus	26.18	kJ/mol	Joback Method
hvap	51.11	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.872		Crippen Method
mcvol	195.500	ml/mol	McGowan Method
pc	1935.54	kPa	Joback Method
rinpol	1517.00		NIST Webbook
tb	584.10	K	Joback Method
tc	800.18	K	Joback Method
tf	328.34	K	Joback Method
vc	0.741	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	561.45	J/mol×K	584.10	Joback Method
cpg	585.76	J/mol×K	620.11	Joback Method
cpg	608.55	J/mol×K	656.13	Joback Method
cpg	630.00	J/mol×K	692.14	Joback Method
cpg	650.29	J/mol×K	728.16	Joback Method
cpg	669.59	J/mol×K	764.17	Joback Method
cpg	688.05	J/mol×K	800.18	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R198742&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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