Cedroxyde

Other names: 1,5,9-trimethyl-13-oxabicyclo[10.1.0]trideca-4,8-diene
Inchi: InChI=1S/C15H24O/c1-12-6-4-7-13(2)9-10-14-15(3,16-14)11-5-8-12/h7-8,14H,4-6,9-11H
InchiKey: PAZWFUGWOAQBJJ-SWZPTJTJSA-N
Formula: C15H24O
SMILES: CC1=CCCC2(C)OC2CCC(C)=CCC1
Mol. weight [g/mol]: 220.35
CAS: 13786-79-3

Physical Properties

Property code	Value	Unit	Source
gf	61.27	kJ/mol	Joback Method
hf	-274.59	kJ/mol	Joback Method
hfus	19.52	kJ/mol	Joback Method
hvap	55.28	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	4.391		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2173.43	kPa	Joback Method
rinpol	1714.00		NIST Webbook
tb	621.44	K	Joback Method
tc	861.53	K	Joback Method
tf	347.08	K	Joback Method
vc	0.725	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	541.92	J/mol×K	621.44	Joback Method
cpg	565.74	J/mol×K	661.45	Joback Method
cpg	588.08	J/mol×K	701.47	Joback Method
cpg	609.09	J/mol×K	741.48	Joback Method
cpg	628.92	J/mol×K	781.50	Joback Method
cpg	647.73	J/mol×K	821.51	Joback Method
cpg	665.68	J/mol×K	861.53	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13786793&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume