2,10,10-Trimethyl6-methylene-1-oxaspiro[4.5]deca

Inchi: InChI=1S/C13H18O/c1-10-6-5-8-12(3,4)13(10)9-7-11(2)14-13/h5-7H,1,8-9H2,2-4H3
InchiKey: XERDNBBJLIPQFC-UHFFFAOYSA-N
Formula: C13H18O
SMILES: C=C1C=CCC(C)(C)C12CC=C(C)O2
Mol. weight [g/mol]: 190.28

Physical Properties

Property code	Value	Unit	Source
gf	137.95	kJ/mol	Joback Method
hf	-103.88	kJ/mol	Joback Method
hfus	13.57	kJ/mol	Joback Method
hvap	48.66	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	3.592		Crippen Method
mcvol	165.280	ml/mol	McGowan Method
pc	2632.55	kPa	Joback Method
ripol	1504.00		NIST Webbook
ripol	1504.00		NIST Webbook
tb	557.29	K	Joback Method
tc	792.84	K	Joback Method
tf	360.16	K	Joback Method
vc	0.619	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	411.20	J/mol×K	557.29	Joback Method
cpg	429.86	J/mol×K	596.55	Joback Method
cpg	447.17	J/mol×K	635.81	Joback Method
cpg	463.40	J/mol×K	675.07	Joback Method
cpg	478.85	J/mol×K	714.33	Joback Method
cpg	493.78	J/mol×K	753.58	Joback Method
cpg	508.48	J/mol×K	792.84	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R494372&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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