2,10,10-Trimethyl-6-methylene-1-oxaspiro[4.5]-dec

Inchi: InChI=1S/C13H20O2/c1-10-6-5-7-11(2,3)13(10)9-8-12(4,14)15-13/h5-6,14H,1,7-9H2,2-4
InchiKey: TVHUDZVLLKDOJB-UHFFFAOYSA-N
Formula: C13H20O2
SMILES: C=C1C=CCC(C)(C)C12CCC(C)(O)O2
Mol. weight [g/mol]: 208.30

Physical Properties

Property code	Value	Unit	Source
gf	-32.40	kJ/mol	Joback Method
hf	-307.52	kJ/mol	Joback Method
hfus	11.60	kJ/mol	Joback Method
hvap	62.92	kJ/mol	Joback Method
log10ws	-3.59		Crippen Method
logp	2.786		Crippen Method
mcvol	175.450	ml/mol	McGowan Method
pc	2871.95	kPa	Joback Method
ripol	1860.00		NIST Webbook
ripol	1860.00		NIST Webbook
tb	640.90	K	Joback Method
tc	862.60	K	Joback Method
tf	427.36	K	Joback Method
vc	0.648	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	492.19	J/mol×K	640.90	Joback Method
cpg	508.57	J/mol×K	677.85	Joback Method
cpg	524.33	J/mol×K	714.80	Joback Method
cpg	539.80	J/mol×K	751.75	Joback Method
cpg	555.28	J/mol×K	788.70	Joback Method
cpg	571.12	J/mol×K	825.65	Joback Method
cpg	587.62	J/mol×K	862.60	Joback Method

Sources

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=R494367&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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