1-Oxaspiro[2.5]oct-5-ene, 8,8-dimethyl-4-methylene-

Other names: 1-Oxaspiro [2,5] oct-5-ene-8,8-dimethyl-4-methylene
Inchi: InChI=1S/C10H14O/c1-8-5-4-6-9(2,3)10(8)7-11-10/h4-5H,1,6-7H2,2-3H3
InchiKey: AVBXGDSLHWBGTL-UHFFFAOYSA-N
Formula: C10H14O
SMILES: C=C1C=CCC(C)(C)C12CO2
Mol. weight [g/mol]: 150.22
CAS: 54345-60-7

Physical Properties

Property code	Value	Unit	Source
gf	116.56	kJ/mol	Joback Method
hf	-75.95	kJ/mol	Joback Method
hfus	9.17	kJ/mol	Joback Method
hvap	40.68	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	2.298		Crippen Method
mcvol	127.310	ml/mol	McGowan Method
pc	3333.53	kPa	Joback Method
rinpol	1325.00		NIST Webbook
ripol	1863.00		NIST Webbook
tb	475.97	K	Joback Method
tc	703.21	K	Joback Method
tf	320.11	K	Joback Method
vc	0.480	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.13	J/mol×K	475.97	Joback Method
cpg	305.91	J/mol×K	513.84	Joback Method
cpg	321.06	J/mol×K	551.72	Joback Method
cpg	334.85	J/mol×K	589.59	Joback Method
cpg	347.54	J/mol×K	627.46	Joback Method
cpg	359.39	J/mol×K	665.33	Joback Method

cpg	370.67	J/mol×K	703.21	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54345607&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume