6,6,12,12-Tetramethyl-1,4,8,11-tetroxadispiro-[4.1.

Inchi: InChI=1S/C12H20O4/c1-9(2)11(7-15-16-8-11)10(3,4)12(9)13-5-6-14-12/h5-8H2,1-4H3
InchiKey: ILDNUUYOPCFIFM-UHFFFAOYSA-N
Formula: C12H20O4
SMILES: CC1(C)C2(COOC2)C(C)(C)C12OCCO2
Mol. weight [g/mol]: 228.28

Physical Properties

Property code	Value	Unit	Source
gf	-279.87	kJ/mol	Joback Method
hf	-613.27	kJ/mol	Joback Method
hfus	17.45	kJ/mol	Joback Method
hvap	53.56	kJ/mol	Joback Method
log10ws	-1.75		Crippen Method
logp	1.744		Crippen Method
mcvol	170.840	ml/mol	McGowan Method
pc	2741.15	kPa	Joback Method
tb	602.59	K	Joback Method
tc	837.27	K	Joback Method
tf	465.65	K	Joback Method
vc	0.637	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	475.38	J/mol×K	602.59	Joback Method
cpg	491.29	J/mol×K	641.70	Joback Method
cpg	506.23	J/mol×K	680.82	Joback Method
cpg	520.74	J/mol×K	719.93	Joback Method
cpg	535.37	J/mol×K	759.04	Joback Method
cpg	550.65	J/mol×K	798.15	Joback Method
cpg	567.15	J/mol×K	837.27	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6001767&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume