Spiro[cyclopropane(1,5')bicyclo[2.1.0]pentane]

Inchi: InChI=1S/C7H10/c1-2-6-5(1)7(6)3-4-7/h5-6H,1-4H2
InchiKey: BDQNBDCIONCPCW-UHFFFAOYSA-N
Formula: C7H10
SMILES: C1CC2C1C21CC1
Mol. weight [g/mol]: 94.15
CAS: 19446-68-5

Physical Properties

Property code	Value	Unit	Source
gf	209.02	kJ/mol	Joback Method
hf	288.00	kJ/mol	NIST Webbook
hfus	6.19	kJ/mol	Joback Method
hvap	29.42	kJ/mol	Joback Method
log10ws	-1.71		Crippen Method
logp	1.806		Crippen Method
mcvol	76.910	ml/mol	McGowan Method
pc	4414.96	kPa	Joback Method
tb	371.48	K	Joback Method
tc	575.50	K	Joback Method
tf	253.41	K	Joback Method
vc	0.312	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	148.81	J/mol×K	371.48	Joback Method
cpg	165.33	J/mol×K	405.48	Joback Method
cpg	180.10	J/mol×K	439.49	Joback Method
cpg	193.28	J/mol×K	473.49	Joback Method
cpg	205.06	J/mol×K	507.49	Joback Method
cpg	215.60	J/mol×K	541.50	Joback Method
cpg	225.07	J/mol×K	575.50	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19446685&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume