Cyclopropane, 3-methoxy-1,1,2,2-tetramethyl-

Inchi: InChI=1S/C8H16O/c1-7(2)6(9-5)8(7,3)4/h6H,1-5H3
InchiKey: MZFZUTJKJUKTCH-UHFFFAOYSA-N
Formula: C8H16O
SMILES: COC1C(C)(C)C1(C)C
Mol. weight [g/mol]: 128.21
CAS: 22859-35-4

Physical Properties

Property code	Value	Unit	Source
gf	-54.17	kJ/mol	Joback Method
hf	-278.07	kJ/mol	Joback Method
hfus	5.34	kJ/mol	Joback Method
hvap	32.81	kJ/mol	Joback Method
log10ws	-1.78		Crippen Method
logp	2.067		Crippen Method
mcvol	118.590	ml/mol	McGowan Method
pc	2925.00	kPa	Joback Method
tb	402.74	K	Joback Method
tc	595.35	K	Joback Method
tf	259.41	K	Joback Method
vc	0.453	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.92	J/mol×K	402.74	Joback Method
cpg	259.92	J/mol×K	434.84	Joback Method
cpg	274.69	J/mol×K	466.94	Joback Method
cpg	288.34	J/mol×K	499.04	Joback Method
cpg	301.02	J/mol×K	531.14	Joback Method
cpg	312.84	J/mol×K	563.24	Joback Method
cpg	323.96	J/mol×K	595.35	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=C22859354&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume