Acetaldehyde, tetramer

Other names:	1,3,5,7-Tetroxocane, 2,4,6,8-tetramethyl-
	Metaldehyde
	Ariotox
	Cekumeta
	Corry'S slug death
	Halizan
	Metacetaldehyde
	Metaldehyd
	Metaldeide
	Metason
	Slug-tox
	2,4,6,8-Tetramethyl-1,3,5,7-tetroxocane
	UN 1332
	2,4,6,8-Tetramethyl-1,3,5,7-tetraoxacyclooctane
	Farmon mini slug pellets
	R-2,C-4,C-6,C-8-tetramethyl-1,3,5,7-tetroxocane
	Slugfest
Inchi:	InChI=1S/C8H16O4/c1-5-9-6(2)11-8(4)12-7(3)10-5/h5-8H,1-4H3
InchiKey:	GKKDCARASOJPNG-UHFFFAOYSA-N
Formula:	C8H16O4
SMILES:	CC1OC(C)OC(C)OC(C)O1
Mol. weight [g/mol]:	176.21
CAS:	108-62-3

Physical Properties

Property code	Value	Unit	Source
gf	-350.88	kJ/mol	Joback Method
hf	-755.47	kJ/mol	Joback Method
hfus	39.24	kJ/mol	Joback Method
hvap	51.29	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	1.450		Crippen Method
mcvol	136.200	ml/mol	McGowan Method
pc	2871.95	kPa	Joback Method
tb	504.32	K	Joback Method
tc	717.90	K	Joback Method
tf	273.82	K	Joback Method

vc	0.481	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	341.66	J/mol×K	504.32	Joback Method
cpg	360.15	J/mol×K	539.92	Joback Method
cpg	377.85	J/mol×K	575.51	Joback Method
cpg	394.71	J/mol×K	611.11	Joback Method
cpg	410.73	J/mol×K	646.71	Joback Method
cpg	425.88	J/mol×K	682.30	Joback Method
cpg	440.14	J/mol×K	717.90	Joback Method
dvisc	0.0054245	Pa×s	273.82	Joback Method
dvisc	0.0024388	Pa×s	312.24	Joback Method
dvisc	0.0013063	Pa×s	350.65	Joback Method
dvisc	0.0007916	Pa×s	389.07	Joback Method
dvisc	0.0005248	Pa×s	427.49	Joback Method
dvisc	0.0003724	Pa×s	465.90	Joback Method
dvisc	0.0002784	Pa×s	504.32	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=C108623&Units=SI

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
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