(E)-Azodioxymethane

Inchi: InChI=1S/C2H6N2O2/c1-3(5)4(2)6/h1-2H3/b4-3+
InchiKey: JFRQLMYPEFSEDK-ONEGZZNKSA-N
Formula: C2H6N2O2
SMILES: C[N+]([O-])=[N+](C)[O-]
Mol. weight [g/mol]: 90.08
CAS: 37765-15-4

Physical Properties

Property code	Value	Unit	Source
chs	-1641.00 ± 2.00	kJ/mol	NIST Webbook
hf	65.90 ± 4.20	kJ/mol	NIST Webbook
hfs	-4.00 ± 2.00	kJ/mol	NIST Webbook
ie	8.68	eV	NIST Webbook
ie	8.30	eV	NIST Webbook
ie	8.63 ± 0.05	eV	NIST Webbook
log10ws	0.30		Crippen Method
logp	-0.281		Crippen Method
mcvol	66.440	ml/mol	McGowan Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C37765154&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

chs: Standard solid enthalpy of combustion
hf: Enthalpy of formation at standard conditions
hfs: Solid phase enthalpy of formation at standard conditions

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume