

# (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](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/ci9903071>

## 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

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