

# 1,6-Dioxacyclodeca-3,8-diyne

**Inchi:** InChI=1S/C8H8O2/c1-2-6-10-8-4-3-7-9-5-1/h5-8H2  
**InchiKey:** VZEWQJVTGHLHHT-UHFFFAOYSA-N  
**Formula:** C8H8O2  
**SMILES:** C1#CCOCC#CCOC1  
**Mol. weight [g/mol]:** 136.15  
**CAS:** 6573-64-4

## Physical Properties

Property code	Value	Unit	Source
ie	9.00	eV	NIST Webbook
ie	9.36	eV	NIST Webbook
log10ws	-0.83		Crippen Method
logp	0.040		Crippen Method
mcvol	107.260	ml/mol	McGowan Method

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**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=C6573644&Units=SI>

## Legend

**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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