

# Ethynyloxy radical

**Inchi:** InChI=1S/C2HO/c1-2-3/h1H  
**InchiKey:** QEJQAPYSVNHDJF-UHFFFAOYSA-N  
**Formula:** C2HO  
**SMILES:** C#C[O]  
**Mol. weight [g/mol]:** 41.03  
**CAS:** 51095-15-9

## Physical Properties

Property code	Value	Unit	Source
ea	2.34 ± 0.01	eV	NIST Webbook
ea	2.35 ± 0.02	eV	NIST Webbook
hfpi	1120.00	kJ/mol	NIST Webbook
ie	9.50	eV	NIST Webbook
log10ws	-4.84		Crippen Method
logp	0.008		Crippen Method
mcpol	34.160	ml/mol	McGowan Method

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C51095159&Units=SI>  
**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)

## Legend

**ea:** Electron affinity  
**hfpi:** Enthalpy of formation of positive ion 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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