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
mcvol	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/ci990307l
Crippen Method: 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