Fluoromethylidyne

Inchi: InChI=1S/CF/c1-2
InchiKey: ISOSXCFSIDVNNC-UHFFFAOYSA-N
Formula: CF
SMILES: [C]F
Mol. weight [g/mol]: 31.01
CAS: 3889-75-6

Physical Properties

Property code	Value	Unit	Source
ea	3.30 ± 0.30	eV	NIST Webbook
ie	9.55 ± 0.01	eV	NIST Webbook
ie	9.11 ± 0.01	eV	NIST Webbook
ie	9.40 ± 0.40	eV	NIST Webbook
ie	9.11 ± 0.01	eV	NIST Webbook
ie	9.00 ± 0.20	eV	NIST Webbook
ie	9.20	eV	NIST Webbook
ie	9.20 ± 0.10	eV	NIST Webbook
ie	9.24	eV	NIST Webbook
ie	8.91 ± 0.12	eV	NIST Webbook
ie	9.23 ± 0.08	eV	NIST Webbook
ie	8.91	eV	NIST Webbook
log10ws	-0.10		Crippen Method
logp	0.501		Crippen Method
mcvol	20.270	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=C3889756&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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume