Azide radical

Other names: Nitrogen, mol. (N3)
Inchi: InChI=1S/N3/c1-3-2
InchiKey: DUAJIKVIRGATIW-UHFFFAOYSA-N
Formula: N3
SMILES: [N]=[N+]=[N-]
Mol. weight [g/mol]: 42.02
CAS: 12596-60-0

Physical Properties

Property code	Value	Unit	Source
ea	2.68 ± 0.03	eV	NIST Webbook
ea	2.76 ± 0.04	eV	NIST Webbook
ea	2.69 ± 0.12	eV	NIST Webbook
ea	2.54	eV	NIST Webbook
ea	3.12 ± 0.30	eV	NIST Webbook
ie	11.06 ± 0.01	eV	NIST Webbook
ie	11.27 ± 0.39	eV	NIST Webbook
log10ws	-0.47		Crippen Method
logp	0.097		Crippen Method
mcvol	30.050	ml/mol	McGowan Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: 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=C12596600&Units=SI

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