Cyclopropenylidene

Inchi: InChI=1S/C3H2/c1-2-3-1/h1-2H
InchiKey: VVLPCWSYZYKZKR-UHFFFAOYSA-N
Formula: C3H2
SMILES: [C]1C=C1
Mol. weight [g/mol]: 38.05
CAS: 16165-40-5

Physical Properties

Property code	Value	Unit	Source
affp	951.10	kJ/mol	NIST Webbook
basg	915.90	kJ/mol	NIST Webbook
hfpi	1180.00 ± 10.00	kJ/mol	NIST Webbook
ie	9.15 ± 0.03	eV	NIST Webbook
log10ws	-0.38		Crippen Method
logp	0.637		Crippen Method
mcvol	33.670	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=C16165405&Units=SI

Legend

affp: Proton affinity
basg: Gas basicity
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