

# Cyclopropenylidene

**Inchi:** InChI=1S/C3H2/c1-2-3-1/h1-2H  
**InchiKey:** VVLPWSYZYKZKR-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/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](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

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