# Dicarbon

**Inchi:** InChI=1S/C2/c1-2
**InchiKey:** LBVWYGNGGJURHQ-UHFFFAOYSA-N
**Formula:** C2
**SMILES:** [C]#[C]
**Mol. weight [g/mol]:** 24.02
**CAS:** 12070-15-4

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| ea | 3.27 ± 0.01 | eV | NIST Webbook |
| ea | 3.27 ± 0.02 | eV | NIST Webbook |
| ea | 3.39 ± 0.02 | eV | NIST Webbook |
| ea | 3.30 ± 0.10 | eV | NIST Webbook |
| ea | 3.54 ± 0.05 | eV | NIST Webbook |
| ea | 3.30 ± 0.20 | eV | NIST Webbook |
| ea | 2.90 | eV | NIST Webbook |
| ea | 2.90 ± 0.50 | eV | NIST Webbook |
| ea | 4.00 ± 1.00 | eV | NIST Webbook |
| ie | 11.41 ± 0.30 | eV | NIST Webbook |
| ie | 11.40 ± 0.30 | eV | NIST Webbook |
| ie | 11.92 ± 0.09 | eV | NIST Webbook |
| ie | 12.15 | eV | NIST Webbook |
| ie | 11.10 ± 0.50 | eV | NIST Webbook |
| ie | 10.90 ± 0.40 | eV | NIST Webbook |
| ie | 11.10 ± 1.00 | eV | NIST Webbook |
| ie | 12.00 ± 0.60 | eV | NIST Webbook |
| ie | 13.00 | eV | NIST Webbook |
| log10ws | 0.33 | | Crippen Method |
| logp | 0.163 | | Crippen Method |
| mcvol | 26.140 | ml/mol | McGowan Method |

# Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772

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|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C12070154&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 |