# Carbon monophosphide

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|---|---|
| **Inchi:** | InChI=1S/CP/c1-2 |
| **InchiKey:** | GDPLAAHPHNAIGW-UHFFFAOYSA-N |
| **Formula:** | CP |
| **SMILES:** | [C]#P |
| **Mol. weight [g/mol]:** | 42.98 |
| **CAS:** | 12326-85-1 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| ie | 10.50 ± 0.50 | eV | NIST Webbook |
| log10ws | 3.02 | | Crippen Method |
| logp | 0.942 | | Crippen Method |
| mcvol | 34.660 | ml/mol | McGowan Method |

# Sources

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|---|---|
| **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=C12326851&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **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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