

# Carbon monophosphide

|                      |                             |
|----------------------|-----------------------------|
| 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

|                 |                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Crippen Method: | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                             |
| McGowan Method: | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                         |
| NIST Webbook:   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C12326851&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C12326851&amp;Units=SI</a> |
| Crippen Method: | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>                                     |

## Legend

|          |                                     |
|----------|-------------------------------------|
| ie:      | Ionization energy                   |
| log10ws: | Log10 of Water solubility in mol/l  |
| logp:    | Octanol/Water partition coefficient |
| mcvol:   | McGowan's characteristic volume     |

Latest version available from:

<https://www.chemeo.com/cid/32-647-8/Carbon-monophosphide.pdf>

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