# Phosphorous acid, tributyl ester

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|---|---|
| **Other names:** | Tri-n-butyl phosphite |
| | Tributoxyphosphine |
| | Tributyl phosphite |
| | Butyl phosphite ((C4H9O)3P) |
| | Tributylfosfit |
| | Syn-O-Ad P-312 |
| | Butyl phosphite |
| | 1-Butanol, 1,1',1''-phosphinidynetri- |
| | JP 304 |
| | NSC 2675 |
| | Phosphorus tributoxide (P(OBu)3) |
| **Inchi:** | InChI=1S/C12H27O3P/c1-4-7-10-13-16(14-11-8-5-2)15-12-9-6-3/h4-12H2,1-3H3 |
| **InchiKey:** | XTTGYFREQJCEML-UHFFFAOYSA-N |
| **Formula:** | C12H27O3P |
| **SMILES:** | CCCCOP(OCCCC)OCCCC |
| **Mol. weight [g/mol]:** | 250.31 |
| **CAS:** | 102-85-2 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| ie | 8.44 ± 0.05 | eV | NIST Webbook |
| log10ws | -0.93 | | Crippen Method |
| logp | 4.663 | | Crippen Method |
| mcvol | 218.010 | ml/mol | McGowan Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C102852&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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