

# Butylphosphonic dichloride

|                             |  |
|-----------------------------|--|
| <b>Other names:</b>         | n-Butylphosphonic dichloride<br>n-Butylphosphonyl dichloride |
| <b>Inchi:</b>               | InChI=1S/C4H9Cl2OP/c1-2-3-4-8(5,6)7/h2-4H2,1H3               |
| <b>InchiKey:</b>            | YITVQRWHXAYYIX-UHFFFAOYSA-N                                  |
| <b>Formula:</b>             | C4H9Cl2OP  |
| <b>SMILES:</b>              | CCCCP(=O)(Cl)Cl  |
| <b>Mol. weight [g/mol]:</b> | 174.99   |
| <b>CAS:</b>                 | 2302-80-9  |

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| log10ws       | -4.08   |        | Crippen Method |
| logp          | 3.457   |        | Crippen Method |
| mcvol         | 118.030 | ml/mol | McGowan Method |

## Sources

|                        |   |
|------------------------|---|
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                       |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2302809&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2302809&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                   |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                           |

## Legend

|                 |                                     |
|-----------------|-------------------------------------|
| <b>log10ws:</b> | Log10 of Water solubility in mol/l  |
| <b>logp:</b>    | Octanol/Water partition coefficient |
| <b>mcvol:</b>   | McGowan's characteristic volume     |

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