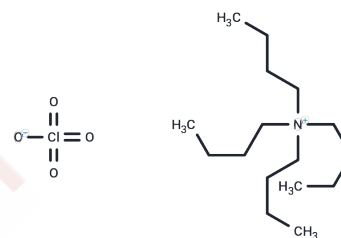


## Tetrabutylammonium perchlorate

### Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 1923-70-2   |
| Formula:          | C <sub>16</sub> H <sub>36</sub> ClNO <sub>4</sub>   |
| Molecular Weight: | 341.91  |
| Storage:          | Keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



### Biological Description

|             |  |
|-------------|--|
| Description | Tetrabutylammonium perchlorate is an organic compound comprising ammonium ions and perchlorate ions. It is commonly utilized as an electrolyte in electrochemistry and as a source of perchlorate anions in analytical chemistry. Due to its high ionic conductivity and stability under extreme conditions, tetrabutylammonium perchlorate finds diverse applications in the production of batteries, fuel cells, and electronic components. Additionally, it serves as a reference standard in analytical techniques such as ion chromatography. |
|-------------|--|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.9247 mL | 14.6237 mL | 29.2475 mL |
| 5 mM  | 0.5849 mL | 2.9247 mL  | 5.8495 mL  |
| 10 mM | 0.2925 mL | 1.4624 mL  | 2.9247 mL  |
| 50 mM | 0.0585 mL | 0.2925 mL  | 0.5849 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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