Tetradecyltrimethylammonium (bromide)

**Item No. 23248**

**CAS Registry No.:** 1119-97-7

**Formal Name:** N,N,N-trimethyl-1-tetradecanaminium, monobromide

**Synonyms:** TTABr, TTAB

**MF:** C_{17}H_{38}N • Br

**FW:** 336.4

**Purity:** ≥98%

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** ≥2 years

*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

---

**Laboratory Procedures**

Tetradecyltrimethylammonium (bromide) (TTABr) is supplied as a crystalline solid. A stock solution may be made by dissolving the TTABr in the solvent of choice. TTABr is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of TTABr in these solvents is approximately 33, 16, and 2 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of TTABr can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of TTABr in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

---

**Description**

TTTABr is an organic building block and cationic surfactant.\(^1\,^2\) It forms hemimicelles and is used as a surface active aid in capillary separation of acid-derived anionic species.

**References**
