

Product Data Sheet

Product Name: Dodecyltrimethylammonium (bromide)

Cat. No.: GC52095

Chemical Properties

Cas. No. 1119-94-4

SMILES C[N+](C)(CCCCCCCCCCCC)C.[Br-]

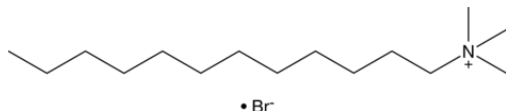
Formula $C_{15}H_{34}N \cdot Br$ M.Wt 308.3

Solubility H_2O : 125 mg/mL (405.40 mM; Need ultrasonic) Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Dodecyltrimethylammonium is a cationic surfactant.¹ It has a critical micelle concentration (CMC) of 15.7 and 8.1 mM in water and PBS, pH 7.4, respectively, and binds to DNA.

Dodecyltrimethylammonium is active against *L. monocytogenes* (MIC = 120 mg/L).²

1. Silva, E.F., Andrade, U.M.S., de Oliveira, K.M., et al. Dodecyltrimethylammonium bromide surfactant effects on DNA: Unraveling the competition between electrostatic and hydrophobic interactions *Phys. Rev. E* 102(3-1)032401(2020) 2. Müller, A., Rychli, K., Zaiser, A., et al. The *Listeria monocytogenes* transposon Tn6188 provides increased tolerance to various quaternary ammonium compounds and ethidium bromide *FEMS Microbiol. Lett.* 361(2)166-173(2014)

Caution: Product has not been fully validated for medical applications. For research use only.

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