Trichloroacetic acid

Product Number  T 4885
Storage Temperature  2-8 °C

Product Description
CAS Number: 76-03-9
Molecular Formula: $C_2HCl_3O_2$
Molecular Weight: 163.4
Melting Point: 57-58 °C
Boiling Point: 196-197 °C

Trichloroacetic acid (TCA) is a reagent that is used for the precipitation of proteins and nucleic acids. TCA is also used as a decalcifier and fixative in microscopy.

Addition of TCA to a final concentration of 10% (w/v) will precipitate most proteins from solution. A final concentration of 20% (w/v) may be required for smaller proteins of molecular weight less than 20 kDa. The excess TCA can be removed from protein pellets by washes with buffer. A procedure for the recovery of protein from dilute solutions has been reported. For the precipitation of nucleic acids, a 5% solution of ice cold TCA has been used.

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
A 100% (w/v) solution of TCA can be made by the addition of 227 ml of water to 500 g of TCA. The resulting clear solution will have a density of approximately 1.45 g/ml.

References
1. The Merck Index, 12th ed., Entry # 9756.

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