

# DTPA PENTA SODIUM LIQUID



DTPA Pentasodium Liquid

## General Specification

1	C.A.S. No	104-01-2
2	Chemical Formula	$C_{14}H_{18}N_3O_{10}Na_5$
3	Physical Appearance	Liquid
4	Color	Clear to Pale yellow
5	Molecular Weight	503.26
6	Active Content	39.0% $\pm$ 1.0%
7	Chelation Value	80.0 $\pm$ 2.0
8	pH (1%)	11.0 to 12.0
9	Solubility	Soluble in Water
10	Specific Gravity	1.22 to 1.35

Note: - DTPA Penta sodium Liquid 50% is also available on request.

## Description

A high grade of DTPA penta sodium Liquid is manufactured by Shiv Chem industries since 1987. We are leading manufacture and Exporter of DTPA Liquid. Raw materials used for manufacturing DTPA Penta sodium Liquid are DTPA acid, caustic lye and DM water. It is sequestering agent or chelating agent. It is pale yellow color liquid, soluble in water. It is a highly alkaline product. It is also known as DTPA liquid or Diethylenetriamine penta acetic acid liquid, Pentasodium DTPA liquid, DTPA solution.

## Handling

DTPA acid causes serious irritant to eyes and skin. While handling this product, please wear goggles, gloves, gloves and safety shoes. Handle with care, no hooks allowed. In case of large spillage wash it with plenty of water. In case of injury to skin, wash it with water and then wash thoroughly with neutral soap and water. Regardless of the seriousness of the case, medical attention should be sought.

## Storages

DTPA penta sodium Liquid is stored in a cool dry place. Ensure proper ventilation in storage area. Keep them away from heat sources, direct sun light and moisture. It is stored in container made of, or lined with polyethylene, polypropylene or high density polyethylene.

## Packing

DTPA Penta sodium Liquid is packed is available in 40 Kg HDPE carboys or 250 Kgs HDPE drums, or as per customer's requirement.

## Applications

DTPA Penta sodium is a Sequestering Agent or chelating which is used in various Industries such as Pharmaceutical, Photography, Textile, Boiler Turbine scale removal.

DTPA Penta sodium is also used in laboratory reagents, soaps and detergents, and boiler turbine scale removal.

DTPA Penta sodium are uses a lead Chelator. DTPA is a chelating agent used in preparing radiopharmaceuticals. DTPA Penta sodium has been considered for treatment of radioactive materials such as plutonium, americium, and other actinides.

It is normally administered as the calcium or zinc salt (Ca or Zn-DTPA), since these ions are readily displaced by more highly charged cations and mainly to avoid to depleting them in the organism.

DTPA Penta sodium is also used as MRI contesting agent. DTPA improves the resolution of magnetic resonance imaging (MRI). Chelate DTPA Penta sodium is also used as aquarium plants fertilizer. The more soluble form of iron, Fe (II), is a micronutrient needed by aquatic plants.

In pulp and paper mills DTPA is also used to remove dissolved ferrous and ferric ions.

DTPA Penta sodium helps preserving the oxidation capacity of the hydrogen peroxide stock which is used as oxidizing agent to bleach pulp in the chlorine-free process of paper making. DTPA Penta sodium can protect bleaching agents and prevent scaling in paper industry.

DTPA chelating properties are also useful in deactivating calcium and magnesium ions in hair product. DTPA is used in over 100 cosmetic products. DTPA Penta sodium is used as a micronutrient to promote plant growth.

DTPA Penta sodium can be used to remove hard water ions like calcium and magnesium in water treatment. It can prevent soap curdling in hard water in Laundry detergents.



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