

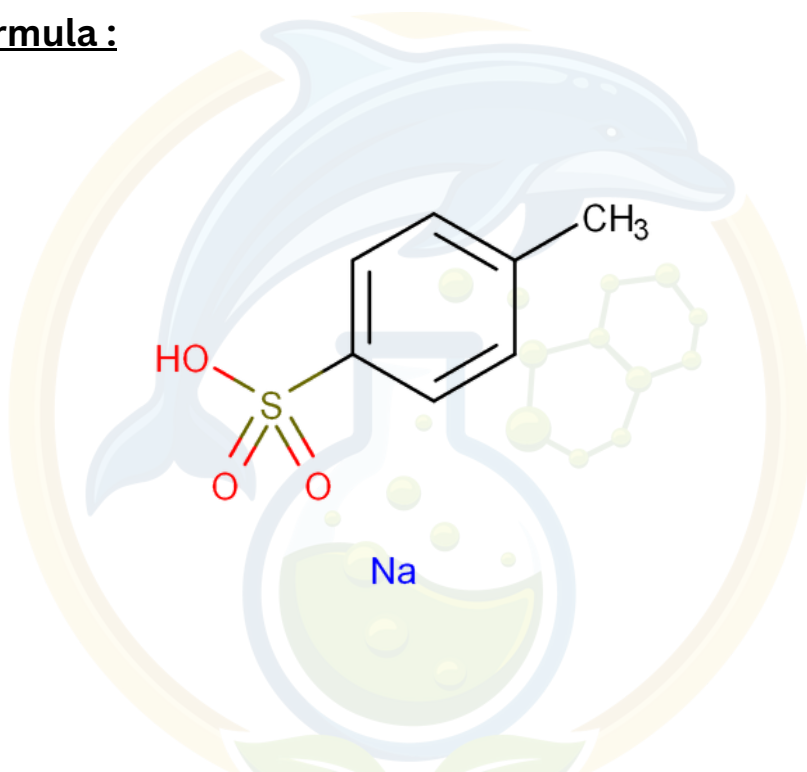
TECHNICAL DATA SHEET

Sodium Toluene Sulphonate 40%

STS-40%

CAS No : 657-84-1

• **Structural Formula :**



• **Description :**

Synonyms

: Sodium Toluene Sulphonate 40%, Sodium Tosylate, Sodium p-Toluenesulphonate, Sodium 4-Methylbenzenesulphonate

Chemical names

: Sodium p-Toluenesulphonate

Chemical formula

: $C_7H_7NaO_3S$

Molecular Weight

: 194.18 g/mol

• **Specifications :**

Appearance

: Clear to slightly hazy liquid

Sodium Sulphate (%)

: NMT 2.00%

pH of (1% solution)

: Typically 7-10

Active %

: 39.0 – 41.0%

- **Applications :**

- **Liquid Detergents:**

Hydrotrope:

Sodium Toluene Sulphonate (STS) is widely used as a hydrotrope in liquid detergents. It improves the solubility of surfactants and other ingredients, helping to maintain clear and stable formulations.

- **Detergents and Household Cleaners:**

Coupling Agent & Viscosity Reducer:

STS acts as a coupling agent and viscosity reducer in liquid detergents. It helps lower the cloud point and maintain clear, stable solutions. In powder detergents, it can also function as an anti-caking agent and conditioner.

- **Industrial Cleaners:**

Cleaning & Degreasing Formulations:

Used in industrial and institutional cleaning formulations to improve the compatibility and stability of concentrated cleaning products.

- **Personal Care Products:**

Solubilizing Agent:

Used as a solubilizing and hydrotropic agent in selected formulations to improve the solubility and compatibility of formulation ingredients.

STS helps maintain the uniform distribution of surfactants, fragrances, and other ingredients in dishwashing and household cleaning products.

- **Industrial Processing:**

Surfactant, Wetting Agent & Dispersant:

STS functions as a surfactant, wetting agent, and dispersant in textile processing and general chemical manufacturing applications.

- **Chemical Fertilizers:**

Crystallization Additive:

STS is used as a crystallization additive during chemical fertilizer production, helping to support the desired processing and product characteristics.

- **Dyes & Specialty Chemicals:**

Chemical Intermediate:

STS is used as an intermediate in the production of specialized dyes and other specialty chemical products.

- **Storage and Handling :**

Sodium Toluene Sulphonate 40% should be stored in **tightly closed containers** in a **cool, dry and well-ventilated place**, protected from excessive heat and direct sunlight. Avoid contamination and keep the container properly sealed when not in use.

- **Packing:**

- **225 KG HDPE DRUM**