



# STANNIC CHLORIDE PENTAHYDRATE

## PRODUCT IN FOCUS



## Stannic Chloride Pentahydrate

### INTRODUCTION

Stannic chloride pentahydrate is a tin source compatible with chlorides. Biologically, it induces a slight inhibition in the catalytic activity of the enzyme horse liver alcohol dehydrogenase (HLADH). The pentahydrate is substitute for its anhydrous grade in applications where presence of water is permissible. Historically, stannous chloride was used as warfare chemical as it forms thick HCl fumes when in contact with water.

### Manufacture

Stannic chloride is produced by chlorination of metallic tin by chlorine gas.

### Applications

Stannic chloride pentahydrate has various end uses:

- ✓ In production of Xyrogel that is applied in solid state gas sensors
- ✓ In preparation of indium tin oxide thin films for semiconductor industry
- ✓ As mordant in fabric dyeing
- ✓ As oxidant of acid dyes and in post-treatment of aniline dyes
- ✓ It gives organo tin compounds (SnR<sub>4</sub>) when treated with Grignards reagent
- ✓ As catalyst in acylation of thiophene to 2-acetylthiophene
- ✓ As reactant in manufacture of APIs and agrochemicals
- ✓ As catalyst in production of polystyrene
- ✓ As highly efficient disinfectant
- ✓ In conductive coatings, polymers, resins, and wood preservatives

<b>Synonyms</b>	Tin (IV) chloride pentahydrate Oxide pentahydrate
<b>CAS no.</b>	10026-06-9
<b>EINECS no.</b>	600-048-8
<b>Molecular formula</b>	SnCl <sub>4</sub> .5H <sub>2</sub> O
<b>Molecular weight</b>	350.6
<b>Structure</b>	



# STANNIC CHLORIDE PENTAHYDRATE

## PRODUCT IN FOCUS



### SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White to off-white solid
Solubility	-	Soluble in water and alcohol
Chloride content	%	38.0 - 43.0

### STORAGE

The product is stored at ambient temperature.

### PACKING

50 kg UN approved HDPE drum.

### REACH Status

Not registered yet.

ExSyn offers stannic chloride pentahydrate on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.