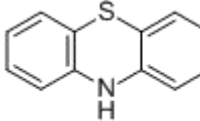


## Technical Data Sheet

### Basic information

Chemical name	Phenothiazine	Formula	C12H9NS
Synonyms	PTZ; Thiodiphenylamine	Chemical structure	
CAS.No.	92-84-2		
EINECS No.	202-196-5		
Molecular weight	199.28		

### Physical properties

Appearance	Yellow or grayish green powder or crystal, easily oxidized color		
Density,g/cm3	1.362		
Boiling point,°C	371		
Melting point,°C	175-185		
Flash point,°C	177		
Refractive index	1.6353		
Water solubility, mg/L	2		
Solubility	Soluble in benzene, ether, hot acetic acid, DMF, THF. Slightly soluble in ethanol and mineral oil. Insoluble in petroleum ether, carbon tetrachloride, n-hexane and cyclohexane and water.		

### Specification

Items	Technical Grade	First class	Excellent Grade	Superior grade
Appearance	Grayish green or khaki powder	Pale yellow powder	Pale yellow powder or granule	Pale yellow powder or granule
Assay,%	≥97.00	≥98.00	≥99.00	≥99.50
Melting point,°C	≥175.00	≥179.00	≥183.00	≥184.00
Water, %	≤0.50	≤0.10	≤0.10	≤0.10
Residue on ignition,%	≤0.30	≤0.10	≤0.10	≤0.10
Solubility test	-	Complete dissolution	Complete dissolution	Complete dissolution

### Application

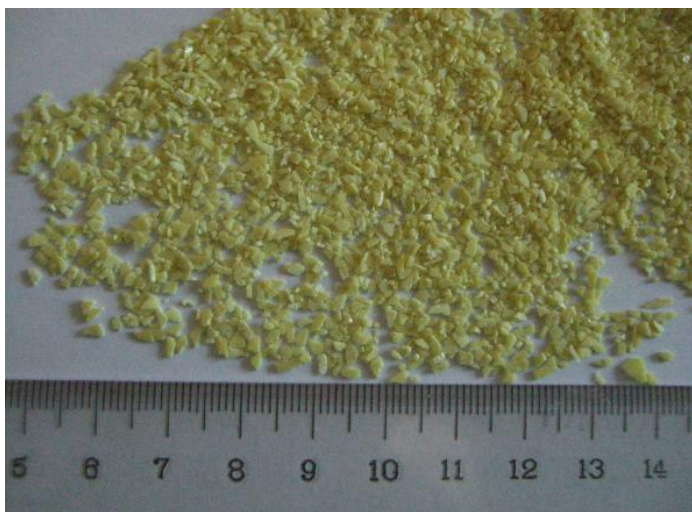
- 1) Phenothiazine mainly used as the production of acrylic polymerization inhibitor.
- 2) Phenothiazine is a widely used insect repellent, it has good effect on cattle, horse, sheep's twister, nodules, lustrum, and schlitz.

3) Phenothiazine also used as a fruit tree insecticide.

4) Phenothiazine is also the intermediates of dyes and other fine chemicals.

### Package

20kg or 25kg per kraft paper bag, or as per customer's requirements



### Safety on transportation

It belongs to common goods, always refer to MSDS.

### Storage and handling

Keep tightly closed, store in a cool dry place.

Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

*The information above is believed to be accurate and represents the best information currently available to us. However, In no event shall we be liable for any claims, losses, or damages of any third party resulting from its use.*

**Issue Date:** 1st,12,2016