



Specialized in chemicals

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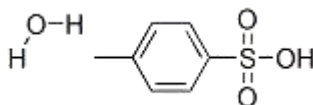
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## Technical Data Sheet

### p-Toluenesulfonic acid

|                  |                                                 |
|------------------|-------------------------------------------------|
| Chemical Name    | p-Toluenesulfonic acid                          |
| CAS #            | 6192-52-5/104-15-4                              |
| EINECS           | 203-180-0                                       |
| Formula          | C7H10O4S                                        |
| Molecular Weight | 190.22                                          |
| Synonyms         | PARA TOLUENE SULFONIC ACID;PTS-ACID MONOHYDRATE |



Chemical Structure

#### Description

p-Toluenesulfonic acid (Para-toluenesulfonic acid, PTSA or pTsOH) is an organic compound with the formula  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . It is a white solid that is soluble in water, alcohols, and other polar organic solvents. P-Toluene sulfonic acid PTSA is colorless or white, and needle shaped crystal or crystalline powder. It dissolves in water, ethanol, ether, benzene, has medium to high toxicity, and is pungent to the skin, eye. Melting point:  $38^\circ\text{C}$  (anhy.)  $103.5^\circ\text{C}$  (mono.) Solubility: water soluble,  $\text{H}_2\text{O}$ : 0.1 g/mL, clear. p-Toluenesulfonic acid PTSA divides into PTSA monohydrate CAS 6192-52-5 and PTSA anhydrous CAS 104-15-4.

#### Specification

| Item                           | Tech  | Pharma    | Extracted | Reagent   |
|--------------------------------|-------|-----------|-----------|-----------|
| Total acidity %(sulfonic acid) | 93/95 | 95/97     | 97/99     | 98/99     |
| Free acid, % $\leq$            | 3     | 2/1       | 0.7/0.5   | 0.1       |
| Water, % $\leq$                | 4/2   | 3.5       | 2.3       | 1.9/0.9   |
| Fe <sup>++</sup> , ppm $\leq$  | 70/50 | 50/30     | 30/20     | 20/10     |
| Ignition residue, % $\leq$     | /     | 0.2       | 0.2       | 0.02      |
| Alcohol solution test          | /     | Qualified | Qualified | Qualified |

Water solution test

/

Qualified

Qualified

Qualified

Color

White

White

White

White

### **Application**

#### **Organic synthetic intermediate**

- Explosive
- Resin
- Polyether
- Cosmetics
- Tobacco
- Food

#### **Catalyst and Stabilizer**

- Esterification
- Dewatering
- Alkylation
- De-alkyl
- Aggregation

#### **Pharma industry**

- Doxycycline
- Dipyridamole
- Naproxen
- Amoxicillin

### **Packing**

25kg per bag, 20mt per 20" FCL without pallets

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