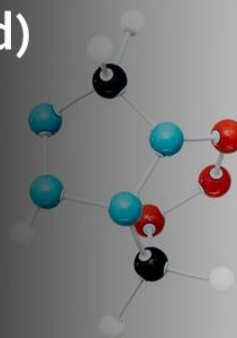


PTSA (Para Toluene Sulfonic Acid)

One of the few strong acids that's solid, widely used as a catalyst in many chemical reactions, an intermediate in pharmaceuticals & resin curing agent



PRODUCT IN FOCUS



p-Toluenesulfonic acid (PTSA)

INTRODUCTION

PTSA or pTsOH or Tosylic acid (TsOH) is a white solid organic compound, that is soluble in water, alcohols and other polar organic solvents. The group is known as the tosyl group and is often abbreviated as Ts or Tos.

TsOH is about one million times stronger than benzoic acid. It is one of the few strong acids that is solid and hence conveniently weighed. It is available both in crystalline form as well as a solution and has a wide range of applications.

APPLICATIONS

PTSA is widely used as a catalyst and as an intermediate in a variety of applications such as:

- Y A catalyst in the synthesis of pharmaceuticals, pesticides, polymerization stabilizer, paint intermediates, cross linking reactions and resin curing agent. It is also a commonly used acid catalyst in organic synthesis.
- Y As an intermediate in fine chemicals, dyestuffs & pigments.
- Y As a curing agent in thermosetting resin systems, varnishes, acrylic resins, etc.
- Y As a hydrotropic coupling agent & a wetting agent in esterification / condensation / acetylation / polymerization / alkylation / hydrolysis / dehydration.
- Y It is comparable in strength to mineral acids such as sulphuric acid but is especially suitable for organic reactions where an inorganic, mineral acid could cause charring, oxidation or an unwanted chemical reaction.

Synonyms

4-Methylbenzenesulfonic acid
Tosic acid, Tosylic acid
PTSA

CAS no.

6192-52-5 (monohydrate)
104-15-4 (hydrous / solution)

EINECS no.

203-180-0

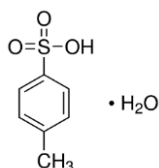
Molecular formula

$C_7H_8SO_3 \cdot H_2O$

Molecular weight

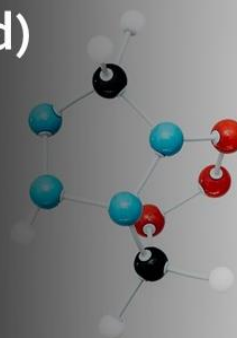
190.22

Structure



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PRODUCT IN FOCUS



p-Toluenesulfonic acid (PTSA)

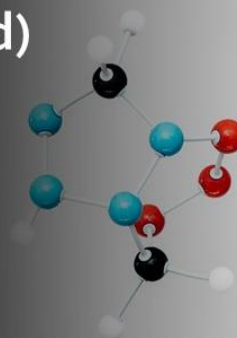
SPECIFICATIONS

Test	Unit	Specification
Appearance*	-	White crystalline powder
Assay on Monohydrate basis	%	Min 98
P-isomer content in the active Material by		
a) HPLC method	%	Min 92
b) Others	-	Balance
Free Sulphuric Acid	%	Max 0.3
Iron Content	ppm	Max 10.0
Total Moisture	%	Max 11.50
Melting Point	°C	Min 99
Solubility in water	-	100% soluble, clear solution

* Note: The international specification of PTSA is white to off white to pink, though the material supplied would be white. However, as the product is highly hygroscopic - due to heat, sunlight and moisture the color may change from white to off white or pinkish in the course of time

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PRODUCT IN FOCUS



p-Toluenesulfonic acid (PTSA) 65% solution

SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Pale yellow to amber colored liquid
Assay (on Anhydrous basis)	%	Min 65.0
Free Sulphuric acid	%	Max 1.0
Specific gravity (at 25°C)	-	1.22 ± 0.02

REACH status

PTSA offered by ExSyn is registered under EU REACH regulation.

STORAGE

The product is stored at ambient temperature.

ExSyn can offer PTSA grades as low as 0.1% free sulfuric acid, resulting in lower corrosion of user's equipment and can also offer customized specifications if needed.

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 get in touch with us.