

# PTSA

Intermediate

AXC.10.03

## General Information

PTSA stands for para toluene sulfonamide. It serves as intermediate in pharmaceuticals and in various chemical processes.

## Description and Application

PTSA is an intermediate used in many pharmaceutical synthesis. Pharmaceuticals that are based on PTSA include:

- Tolazamide (anti-diabetes drug)
- Tolbutamide (anti-diabetes drug)
- Glycyclamide (anti-diabetes drug)
- Gliclazide (anti-diabetes)

Moreover PTSA is a major component in the synthesis of fluorescent pigments and dyes.

## Specifications

Active content:	≥ 99.5%
Water content:	≤ 0.2%
Crystallisation point:	≥ 136.8°C
Colour *):	≤ 25 Pt/Co
o-toluenesulfonamide:	≤ 0.3%
m-toluenesulfonamide:	≤ 0.1%
Ammonium content:	≤ 15mg/kg

\*) 33 % solution in acetone

## Physical Properties

Apperent bulk density:	730-760 kg/m <sup>3</sup>
Appearance:	white crystalline powder
Degrades at:	187°C
Flash point (dosed cup):	202°C
Solubility in water:	3.2 g/l (25°C)

## Toxicological information

Acute toxicity (oral):	LD50 rat > 2330 mg/kg
Genotoxicity (Amestest):	not mutagenic
Biodegradation:	readily biodegradable

PTSA is approved by the U.S. Food and Drug Administration (FDA) according to CFR 21, sections:

- 175.105

## Packaging

- 25 kg in 3 ply paper bags, 35 on a pallet

## Storage

Store in a cool dry place.

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