

PTSA

AXC.10.04

Intermediate

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 syntheses. 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:	≤ 0.2%
Ammonium content:	≤ 15mg/kg

*) 33 % solution in acetone

Physical Properties

Apperent bulk density:	730-760 kg/m ³
Appearance:	white crystalline powder
Degrades at:	187°C
Flash point (closed 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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