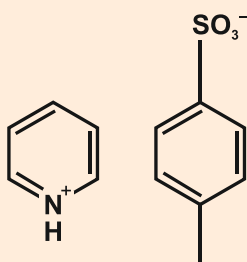




PYRIDINIUM P-TOLUENESULFONATE

1. STRUCTURE



2. PRODUCT NAME & DETAILS

Pyridinium p-toluenesulfonate

Product Code	: 005851
CAS No.	: 24057-28-1
HS Code	: 2933.31.00
Molecular formula	: C ₁₂ H ₁₃ NO ₃ S
Molecular weight	: 251.31

3. REGULATORY INFORMATION

Chemical name	Common names and synonyms	CAS number	EC number
Pyridinium p-toluenesulfonate	Pyridinium toluene-4-sulphonate	24057-28-1	246-002-7
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed
EC Inventory			Listed
United States Toxic Substances Control Act (TSCA) Inventory			Listed
China Catalog of Hazardous chemicals 2015			Not Listed
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed
Korea Existing Chemicals List (KECL)			Listed
Canadian Domestic Substance List (DSL)			Listed
Canadian Non-Domestic Substance List (NDSL)			Not Listed
Japanese Existing and New Chemical Substances Inventory (ENCS)			Not Listed

4. SPECIFICATION

Physical Appearance	: Off-white Crystalline Powder
Melting Point	: 116.0 - 120 °C
Moisture Content (KF)	: NMT 1.00%
Solubility (2.5% In Methanol)	: Clear Solution
Identify (FTIR)	: Should Comply With Standard
Assay (Titration On Anhydrous Basis)	: 99.0 - 100.5%

Disclaimer

Typical properties should not be considered as specification.
Product covered by valid patents are not offered or supplied for commercial use. The Patent position should be verified by the customer.
Products will not be supplied to countries where they could be in conflict with existing patents.
Products currently covered by valid US patents are offered for R&D use in accordance with 35 USC 271 (e) (I)
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5. APPLICATION

- Used as general industrial fine chemical.
- Used as organic soluble source of Pyridium ion.
- It is intermediate of Tacrolimus and Orlistat Immunosuppressant, anti-obesity/pancreatic lipase inhibitor.
- In organic synthesis, PPTS is used as a weakly acidic catalyst, providing an organic soluble source of pyridinium ($C_5H_5NH^+$) ions. For example, PPTS is used to deprotect silyl ethers or tetrahydropyranyl ethers when a substrate is unstable to stronger acid catalysts.
- It is also a commonly used catalyst for the preparation of acetals and ketals from aldehydes and ketones.
- As a co-catalyst with L-proline improved both yield and enantioselectivity of an asymmetric aldol condensation between dioxanones and aldehydes.

6. HAZARD CLASSIFICATION : Non-Hazardous substance.



Irritant

7. ANNUAL CAPACITY : 25 MT.

8. STORAGE CONDITION : Store in closed container at ambient temperature.
Avoid direct sun light. Avoid exposure to moist atmosphere.

9. PACKING DETAILS : 25 Kg in HDPE container with PE liners.

10. SHELF LIFE : 1 year.

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