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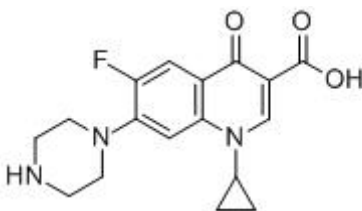
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Technical Data Sheet

Ciprofloxacin

Product Information

| | |
|--------------------|--|
| Chemical Name | Ciprofloxacin |
| CAS # | 85721-33-1 |
| EINECS | # |
| Formula | C ₁₇ H ₁₈ FN ₃ O ₃ |
| Molecular Weight | 331.34 |
| Synonyms | Ciprofloxacin base; |
| Chemical Structure | |



Description

Ciprofloxacin is a kind of white to light yellowish crystalline powder. It is practically insoluble in water, very slightly soluble in ethanol and trichloromethane. But it is soluble in acetic acid. It tastes bitter and melts at 255~257 °C.

Physical Properties

| | |
|---------------|---|
| Appearance | White to light yellow crystalline powder |
| Solubility | Practically insoluble in water, very slightly soluble in ethanol and trichloromethane but soluble in acetic acid. |
| Melting point | 255~257 °C |

Specification

| | |
|----------------|---|
| Appearance | White to light yellow crystalline powder |
| Solubility | Soluble in acetic acid, very slightly soluble in ethanol and trichloromethane, practically insoluble in water |
| Identification | A. Corresponds to the retention time of main peak in the chromatogram obtained from the reference solution B. Correspond to the IR spectrum of reference standard Residue on ignition |

| | |
|--------------------------------------|---|
| Loss on drying | Not more than 1.0% |
| Residue on ignition | Not more than 0.1% |
| Chloride | Not more than 0.02% |
| Sulphate | Not more than 0.04% |
| Heavy metals | Not more than 20ppm |
| Clarity | Dissolve 0.25g of substance to be tested to 10ml of Hydrochloride solution, the solution should be clarity or slightly opalescent |
| Fluoroquinolonic acid | Not more than 0.2% |
| Ciprofloxacin ethylenediamine analog | Not more than 0.20% |
| Any other impurity | Not more than 0.20% |
| Total impurity | Not more than 0.50% |
| Assay(on the dried basis) | Between 98.0% and 102.0%(C ₁₇ H ₁₈ FN ₃ O ₃) |

Safety

As a general rule, when handling the materials avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling. It is common goods on transportation; Always refer to the Material Safety Data Sheet (MSDS)

Applications

Ciprofloxacin can be used for both human being and animals.

Ciprofloxacin is suitable for respiratory tract infections, urinary tract, ear-nose-throat, skin and soft tissue, and gastrointestinal tract infections, etc. Ciprofloxacin, the third generation quinolone antibiotics, is widely used as antimicrobial agents, and it has strong and fast sterilization force.

Packaging

25kg per fiber drum, 280 drums per 20ft container without pallets.

Storage & Handling

Handling: As a general rule, when handling the materials avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

Storage: Store in tight, light-resistant container. This material should be handled and stored per label instructions to ensure product integrity.

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