

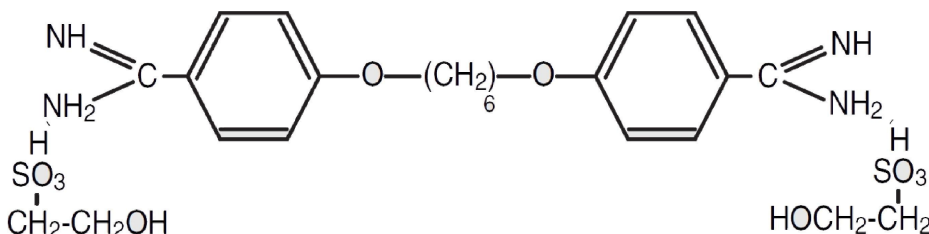
## Key Features

Atdf® pf-95 is a hydrosoluble antimicrobial cationic substance with a wide spectrum of activity against bacteria, fungi and yeasts.

**INCI** Hexamidine Diisethionate

**CAS#** 659-40-5

## Chemical Structure



## Antimicrobial Properties

Hexamidine Diisethionate has strong microbiostatic and/or microbicidal activity against:

- 0Gram (+) bacteria: Staphylococcus, Sarcina, Streptococcus, Corynebacterium, Propionibacterium, Bacillus,
- 0Gram (-) bacteria: Escherichia, Proteus, Klebsiella, Salmonella, Serratia,
- 0Gram (-) bacteria, oxydase (+): Pseudomonas,
- 0Fungi: Aspergillus, Penicillium, Actinomyces
- 0Yeasts: Candida, Pityrosporum.

## Applications

1 Anti-dandruff (pityrosporum ovale) and anti-desquamation products: shampoo, and other hair care products.

- The effect of anti-dandruff is strong and obvious: 0.02-0.08% addition is enough.
- Easy to apply: it is easy to solve in water and will not lead settlement and color-change.
- No irritation to skin or hair.

2 Anti-acne and deodorant formulations.

3 Preservative.

Officially listed in / Quality conforms to

EEC approved

Australia approved.

USA approved.  
Canada approved  
**Specification**

Item	Standard
Appearance	White powder
odor	weak
Assay(HPLC)	99.0%min
Mass spectrum	Conform
Infra-red spectrum	Conform
Ultra-violet spectrum	Conform
Total nitrogen	8.8-9.2% %
Hexamidine	57.8-59.2%
isethionate	40.9 - 42.2 %
Loss on drying	0.5%max

#### **Formulation Tips**

Atdf® pf-95 is a cationic substance, thus it is incompatible or interacts with all anionic raw materials. To avoid precipitation and opacity in the formulations of anionic surfactant, it is very helpful to dilute Atdf® pf-95 with water and betaines, before its introduction into the product.

The suitable pH is between 3 and 8, avoid high alkaline medium.

#### **Dosage**

○Anti-dandruff and hair care: 0.02-0.08%

○Anti-acne and skin care: 0.03-0.1%

#### **Package and storage**

Atdf® pf-95 remains stable for at least 3 years when stored at room temperatures and sealed. 25Kg and 5Kg pail.

## **Silat Biochemicals**

---

Room 1138,2th Building , LvdiHuichuang international square ,No6 Kexing Road,  
Baiyun District,Guangzhou,Guangdong,China

Tel: 020-36261692 36261697

Fax: 020-36261697 36261977

E-mail: [silat@silat-group.com](mailto:silat@silat-group.com)

Website: [www.silat-group.com](http://www.silat-group.com)