

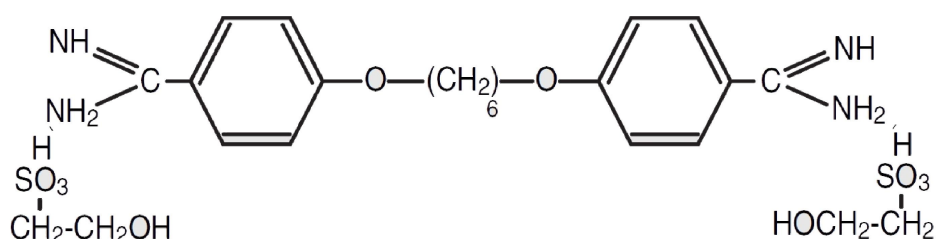
Key Features

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:

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



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