

Miconazole Nitrate USP

INCI Name: Miconazole Nitrate

CAS Numbers: 22832-87-7

Description:

Miconazole Nitrate is an imidazole antifungal agent, commonly applied topically to the skin or to mucous membranes to cure fungal infections, and a skin condition known as pityriasis (a fungal infection that causes lightening or darkening of the skin). It works by inhibiting the synthesis of ergosterol, a critical component of fungal cell membrane. It also has some limited antibacterial properties.



Technical Data:

Index Name	Specifications
Appearance	White or off white powder
Identification	IR: Similar to standard UR: Similar to standard
Related substance (total)	0.5% max.
Other single impurity	0.25% max.
Loss on drying	0.5% max.
Sulfate Ash	0.2% max.
Assay	98.0-102.0

Solubility:

- Insoluble in ether
- Very slightly soluble in water and in isopropyl alcohol
- Slightly soluble in alcohol, in chloroform, and in propylene glycol
- Sparingly soluble in methanol
- Soluble in dimethylformamide
- Slightly soluble in Cocamide DEA
- Soluble in Triethanolamine

Applications:

Miconazole Nitrate is used topically to treat fungal infections of the skin and mucous membranes. It is also used as a final rinse in photo film and negative processing.



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