



Miconazole nitrate PRODUCT DATA SHEET

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Product Name:	Miconazole nitrate
Product Number:	M005
CAS Number:	22832-87-7
Molecular Formula:	$C_{18}H_{14}Cl_4N_2O$
Form:	Powder
Appearance:	White or off-white powder
Melting Point:	178 - 183°C
Storage Conditions:	2-8 °C
Description:	Miconazole nitrate is an imidazole antimycotic compound. Miconazole nitrate targets fungi that cause tinea (ringworm) and athlete's foot.
Mechanism of Action:	Miconazole nitrate increases cell permeability by inhibiting enzymes involved in ergosterol synthesis. The increase of permeability has a toxic effect on the fungi and leads to cell death.
Spectrum:	Miconazole targets fungi that cause tinea (ringworm) especially <i>Trichophyton</i> species.
References:	Rice L.B. and Ghannoum M.A.. "Antifungal Agents: Mode of Action, Mechanisms of Resistance, and Correlation of These Mechanisms with Bacterial Resistance. <i>Clinical Microbiology Reviews</i> (1999): 501-17. Sreedhara, K. H. "Studies on the Mechanism of Action of Miconazole: Effect of Miconazole on Respiration and Cell Permeability of <i>Candida Albicans</i> ." <i>Antimicrobial Agents and Chemotherapy</i> 5.4 (1974): 420-25. w www.ncbi.gov . American Society for Microbiology. Web. 22 Aug. 2012.

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