

Miconazole PRODUCT DATA SHEET

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Product Name:	Miconazole
Product Number:	M041
CAS Number:	22916-47-8
Molecular Formula:	C ₁₈ H ₁₄ Cl ₄ N ₂ O
Molecular Weight:	416.13
Form:	Powder
Appearance:	White or off white powder
Melting Point:	83°C - 87°C
Optical Rotation:	-0.10° - +0.10°
Description:	Miconazole is an imidazole antimycotic compound.
Mechanism of Action:	Miconazole 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. Clinical Microbiology Reviews (1999): 501-17.
	Sreedhara, K. H. "Studies on the Mechanism of Action of Miconazole: Effect of Miconazole on Respiration and Cell Permeability of Candida Albicans." <i>Antimicrobial Agents and Chemotherapy</i> 5.4 (1974): 420-25. <i>www.ncbi.gov.</i> American Society for Microbiology. Web. 22 Aug. 2012.

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