

<b>Product Name:</b>	Miconazole nitrate
<b>Product Number:</b>	M005
<b>CAS Number:</b>	22832-87-7
<b>Molecular Formula:</b>	$C_{18}H_{14}Cl_4N_2O$
<b>Form:</b>	Powder
<b>Appearance:</b>	White or off-white powder
<b>Melting Point:</b>	178 - 183°C
<b>Storage Conditions:</b>	2-8 °C
<b>Description:</b>	Miconazole nitrate is an imidazole antimycotic compound. Miconazole nitrate targets fungi that cause tinea (ringworm) and athlete's foot.
<b>Mechanism of Action:</b>	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.
<b>Spectrum:</b>	Miconazole targets fungi that cause tinea (ringworm) especially <i>Trichophyton</i> species.
<b>References:</b>	<p>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.</p> <p>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. w <a href="http://www.ncbi.gov">www.ncbi.gov</a>. American Society for Microbiology. Web. 22 Aug. 2012.</p>