

<b>Product Name:</b>	Ketoconazole
<b>Product Number:</b>	K006
<b>CAS Number:</b>	65277-42-1
<b>Molecular Formula:</b>	$C_{26}H_{28}Cl_2N_4O_4$
<b>Molecular Weight:</b>	531.43
<b>Form:</b>	Powder
<b>Appearance:</b>	White to light yellow powder
<b>Source:</b>	Synthetic
<b>Melting Point:</b>	147-151°C
<b>Storage Conditions:</b>	2-8°C
<b>Description:</b>	<p>Ketoconazole is an insoluble imidazole antimycotic compound.</p> <p>This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.</p>
<b>Mechanism of Action:</b>	Ketoconazole 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>	Ketoconazole is a broad spectrum antifungal agent targeting a wide variety of fungal cell membranes.
<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>Van Tyle, J. H. "Ketoconazole. Mechanism of Action, Spectrum of Activity, Pharmacokinetics, Drug Interactions, Adverse Reactions and Therapeutic Use."PubMed (1984): 343-73.</p>