

Ketoconazole

INCI Name: Ketoconazole

CAS Numbers: 65277-42-1



Description:

Ketoconazole is a synthetic imidazole antifungal drug that works by slowing the growth of fungi that cause infection. In topical applications, Ketoconazole has activity against many kinds of fungi including but not limited to *Malassezia furfur* (associated with dandruff) and *Candida* (associated with yeast infections).

Technical Data:

Items	Standards
Appearance	White or almost white powder
Identification	Meets the requirements
Melting range	148 ~ 152°C
Appearance of solution	Meets the requirements
Organic volatile impurities	Meets the requirements
Specific Rotation	-1° ~ +1°
Chromatographic Purity	Meets the requirements
Heavy metals	Not more than 0.002%
Loss on drying	Not more than 0.5%
Residue on ignition	Not more than 0.1%
Assay	98.0 ~ 102.0%
Conclusion	Conforms to standard

Applications

Ketoconazole is used in a variety of formulations for topical administration. Ketoconazole is usually prescribed for fungal infections of the skin and mucous membranes, such as athlete's foot, ringworm, candidiasis (yeast infection or thrush), jock itch and tinea versicolor. Ketoconazole is also used as a treatment for dandruff (seborrheic dermatitis of the scalp) and for seborrheic dermatitis on other areas of the body. Ketoconazole is commonly found in creams, gels and shampoos.



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