



Specialized in chemicals

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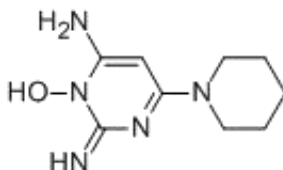
Technical Data Sheet

Minoxidil

Product Information

Chemical Name	Minoxidil
CAS #	38304-91-5
Formula	C9H15N5O
Molecular Weight	209.25
Synonyms	Loniten,Lonolox,Lonoten,Minona

Chemical Structure



Description

Minoxidil is white to off-white, crystalline powder, soluble in alcohol and propylene glycol; sparingly soluble in methanol; slightly soluble in water; practically insoluble in chloroform, acetone and ethyl acetate.

Physical Properties

Melting point, °C .	272-274 °C
Boiling range, °C	N/P
Density @ 20°C, g/cm ³	N/P
Flash point, °C	N/P

Specification

Item	Specification
Appearance	White crystalline powder
Identification	Positive
Residue on Ignition, %	≤0.50
Heavy Metals, ppm	≤20
Loss on Drying, %	≤0.50
Organic Volatiles impurity, %	With USP34
Total Impurity, %	≤1.50

Assay (HPLC), % 97.0~103.0

Safety

Alcohol present in topical preparations may dry the scalp, resulting in dandruff. Side effects of oral minoxidil may include swelling of the face and extremities, rapid and irregular heartbeat, lightheadedness, cardiac lesions, and focal necrosis of the papillary muscle and subendocardial areas of the left ventricle. There have been cases of allergic reactions to minoxidil or the non-active ingredient propylene glycol, which is found in some forms of topical Rogaine. Pseudoacromegaly is also a rare reported side effect.

Applications

Minoxidil is a potassium channel agonist. It contains the chemical structure of nitric oxide), a blood vessel dilator, and may be a nitric oxide agonist. This appears to explain its vasodilatory effects, but may also be linked to minoxidil's ability to stimulate hair growth and treat hair loss. Since minoxidil is a nitric oxide-related compound, it was suspected to act via activation of guanylate cyclase, an enzyme involved in vasodilation.

Packaging

25kg per fiber drum

Storage & Handling

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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