

Metformin Hcl (CAS number- 1115-70-4)

SPECIFICATIONS. Metformin Hydrochloride EP/BP/USP

TAJMTF-METHCL9980

Taj Active Pharmaceuticals Ingredients

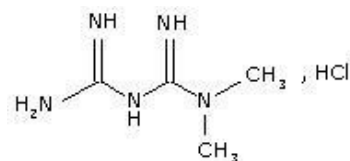
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Active Pharmaceutical Ingredients
TAJ PHARMACEUTICALS LIMITED INDIA



Raw Material / Chemicals Index

Taj Pharmaceuticals Ltd.
Metformin HCL
CAS Number 1115-70-4



STANDARD TESTING SPECIFICATIONS

Metformin Hydrochloride EP/BP/USP

Metformin Hydrochloride [1115-70-4]

Product Name: Metformin Hydrochloride

CAS No.: 1115-70-4

Molecular Formula: C₄H₁₁N₅·HCl

Molecular Weight: 165.62

Specification: USP/BP/EP

Chemical Name: N,N-Dimethylimidodicarbonimidic diamide hydrochloride

Physical Form White or almost white crystalline Powder with a Scarcely perceptible yellow tinge.



Therapeutic Cat	Anti-diabetic
Related substances:	dicyandiamide 0.02% max: complies any other impurities 0.1% max complies
Heavy metals:	10ppm
Loss on drying:	0.5% max
Sulphated ash:	0.1% max
Assay:	98.54-101%
Documents Available	USDMF / EDMF
Solubility	Soluble to 100 mM in water and to 50 mM in DMSO
Use/Stability :	Stock solutions are stable for up to 6 months when stored at -20°C.
Long term Storage:	+4°C
Biological Activity	Antidiabetic agent; lowers plasma glucose levels and improves insulin sensitivity. Inhibits hepatic gluconeogenesis via activation of the LKB1/AMPK pathway. Displays antiproliferative effects in cancer cell lines.
Synonyms	Metformin Hydrochloride ; N,N-dimethylimidodicarbonimidic diamide Hydrochloride; 1,1-dimethylbiguanide Hydrochloride; N,N-dimethyldiguanide Hydrochloride; 1,1-dimethylbiguanide monohydrochloride;
Handling:	HYGROSCOPIC.
Hazard:	IRRITANT.

Properties

Melting point 223-226 °C

Safety Data

Hazard Symbols  Xn

Risk Codes R22;R36/38

Safety Description	S26;S36
Production Capacity	900 MT per annum
Packing Details	50 Kgs Fibre drums
Identification:	Ir/TLC idcntification /pink colour/chlorides test----cino\plies
Appearance of solution:	clear , colourless
Type:	Endocrine System Agents
Detailed Product Description	
Indications:	oral antihyperglycemic agent
Advantages:	sustained release pellets, last more long, better effection
Product name:	Metformin hydrochloride SR pellets
Indications:	antihyperglycemic
Advantages:	<i>sustained release pellets</i> , last more long, better effection
Ingredient:	Metformin hydrochloride, coating agent for SR , stability agent, etc

DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.



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