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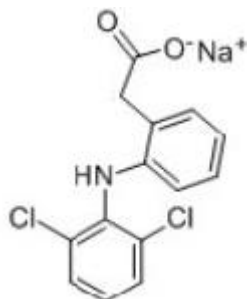
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Technical Data Sheet

Diclofenac sodium

Product Information

Chemical Name	Diclofenac sodium
CAS #	15307-79-6
EINECS	239-346-4
Formula	C ₁₄ H ₁₀ Cl ₂ NNaO ₂
Molecular Weight	318.13
Synonyms	2-((2,6-dichlorophenyl)amino)-benzeneaceticacimonosodiumsalt;
Chemical Structure	



Description

Diclofenac sodium is a white or slightly yellowish crystalline powder..

Physical Properties

Appearance	white or slightly yellowish crystalline powder
Melting point, °C	288-290
Water solubility, g/ml	50
pH	7.0-8.5

Specification

BP/EP Standard:

Appearance	white or slightly yellowish crystalline powder
Appearance of solution	The solution is clear and its absorbance at 440nm is not greater than 0.05
Related substances	Impurity A: NMT 0.2% Impurity F: NMT 0.15%
Any specified individual impurity:	NMT 0.10%
Total impurities:	NMT 0.4%
Heavy metals	NMT 10ppm
Content ,%	99.0%~101.0%(dried substance)
Loss on drying, %	NMT0.50%(lg,105°C,3hours)

USP Standard:

Appearance	white or slightly yellowish crystalline powder
Color of solution	NMT 0.050
Clarity of solution	Not significantly less clear
pH	7.0-8.5
Loss on drying	≤0.5%
Chromatographic purity	
Related compound A	≤0.2%
Other individual impurity	≤0.2%
Other sum of all the impurities	≤0.5%
Content ,%	99.0%~101.0%
Residual solvents	
Toluene	≤ 400ppm
Ethyl acetate	≤ 800ppm
Total germ	≤ 1000 CFU/g
Moulds	≤ 100 CFU/g
Escherichia coli	Not detectable

Safety

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Applications

Diclofenac sodium is a potent antipyretic analgesic anti-inflammatory drugs. Its anti-inflammatory action 2-2.5 times that of indomethacin, 26-50 times more than acetyl salicylic acid. Applicable to rheumatoid arthritis, joint disease, pain and fever due to a variety of causes after the operation.

Packaging

25kg per fiber drum, 480 drums per 20ft container without pallets.

Storage & Handling

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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