Nicotinamide (Vitamin B3), USP

PRODUCT DATA SHEET

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Product Name: Nicotinamide (Vitamin B3), USP
Product Number: N018
CAS Number: 98-92-0
Molecular Formula: C6H6N2O
Molecular Weight: 122.12 g/mol
Form: Powder
Appearance: White crystalline
Solubility: Water: Freely soluble
Boiling Point: 334.4 °C
Melting Point: 128-131 °C
Flash Point: 156 °C
Storage Conditions: <30°C

Description: Nicotinamide is a freely soluble (500 mg/mL) metabolized amide form of vitamin B3.

Mechanism of Action: In cells, nicotinamide is converted into NAD (nicotinamide adenine dinucleotide) and NADP (nicotinamide adenine dinucleotide phosphate) which are both involved in redox reactions.

Cancer Applications: Nicotinamide has also been used as an anti-cancer agent to inhibit PARP-1, an enzyme responsible for repairing DNA damage caused by chemotherapy treatment.