

SPECIFICATION

Doxycycline Monohydrate

Parameters	Specification
CAS Number	17086-28-1
Appearance	White to off-white crystalline powder
Molecular Formula	C ₂₂ H ₂₆ N ₂ O ₉
Molecular Weight	462.45 g/mol
Boiling Point	300 °C
Melting Point	170 °C
Flash Point	180 °C
Purity	98–99%
Refractive Index	1.53
Solubility	Sparingly soluble in water; soluble in methanol and acetone; insoluble in nonpolar solvents
Uses	Antibiotic used to treat bacterial infections including respiratory tract infections, skin infections, acne, and vector-borne diseases