Product Name: Methacycline
Product Number: M051
CAS Number: 914-00-1
Molecular Formula: C_{22}H_{22}N_{2}O_{8}
Molecular Weight: 442.4
Appearance: Yellow to orange solid
Storage Conditions: -20°C
Description: Methacycline is a semi-synthetic tetracycline prepared by dehydration of the 6-hydroxy group of oxytetracycline to yield an exocyclic 6-methylene. Like all tetracyclines, methacycline shows broad spectrum antibacterial and antiprotozoan activity. Methacycline has been extensively cited in the literature with over 400 references.

Methacycline is soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Mechanism of Action: Like all tetracyclines, methacycline acts by binding to the 30S and 50S ribosomal subunits, blocking protein synthesis.

References: