Anhydrotetracycline hydrochloride

Synonyms :

Specifications

CAS # : 13803-65-1
Molecular Formula : C_{22}H_{23}ClN_{2}O_{7}
Molecular Weight : 462.9
Source : Semi-synthetic
Appearance : Yellow solid
Purity : >95% by HPLC
Long Term Storage : -20°C
Solubility : Soluble in ethanol, methanol, DMF or DMSO. Moderate water solubility.

Application Notes

Anhydrotetracycline is a degradation product of tetracycline, formed by dehydration at the C6 position under acidic conditions to aromatise the B ring. Anhydrotetracycline is an important standard for monitoring tetracycline stability. Although the degradation is associated with a loss of antibiotic activity, anhydrotetracycline is considered biologically active and is thought responsible for aspects of tetracycline toxicity.

References