

Product Name: 4-epianhydrochlortetracycline hydrochloride

Product Number: E042

CAS Number: 158018-53-2

Molecular Formula: $C_{22}H_{22}Cl_2N_2O_7$

Molecular Weight: 497.3

Appearance: Orange solid

Storage Conditions: -20°C

Description: 4-epianhydrochlortetracycline (chlortetracycline impurity K) is a secondary degradation product formed by dehydration of epichlortetracycline at the C6 position to aromatise the B ring. 4-epianhydrochlortetracycline is an important standard for monitoring tetracycline stability.

4-epianhydrochlortetracycline is soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

References: Quantitative analysis of chlortetracycline and related substances by high-performance liquid chromatography. Kahn N.H. et al. J. Pharm. Biomed. Anal. 1989, 7, 339.

Analysis of purified samples of oxytetracycline, 4-epioxytetracycline, alpha-apooxytetracycline and beta-apooxytetracycline. Kahn N.H. et al. Janssen Chimica Acta 1992, 10, 16.

Analysis of purified samples of the hydrochloride salt of chlortetracycline, 4-epichlortetracycline, anhydrochlortetracycline, 4-epianhydrochlortetracycline and isochlortetracycline. Hendrix C. et al. Janssen Chimica Acta, 1993, 11, 16.