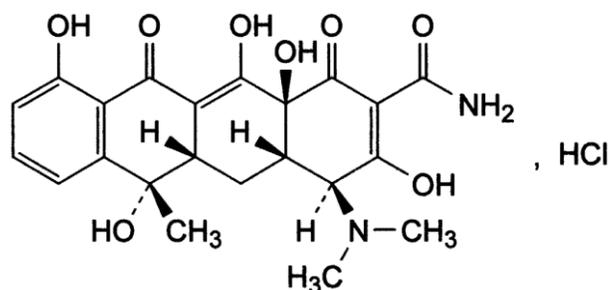


## PRODUCT Tetracycline Hydrochloride Ph. Eur.

CAS no. [64-75-5]



**CHARACTERISTICS** Yellow, crystalline powder.  
Soluble in water, slightly soluble in ethanol (96%), practically insoluble in acetone. It dissolves in solutions of alkali hydroxides and carbonates. Solutions in water become turbid on standing, owing to the precipitation of tetracycline.

TEST	SPECIFICATION	
<b>Assay</b>	95.0% to 102.0% (dried substance)	
<b>Identification</b>	Conforms to Ph. Eur. tests	
<b>pH</b>	1.8 to 2.8	
<b>Specific optical rotation</b>	-240° to -255° (dried substance)	
<b>Heavy metals</b>	Not more than 50ppm	
<b>Loss on drying</b>	Not more than 2.0%	
<b>Sulphated ash</b>	Not more than 0.5%	
<b>Related substances</b>	Impurity A (4-epitetracycline)	Not more than 3.0%
	Impurity B (2-acetyl-2-decarbamoyletetracycline)	Not more than 1.5%
	Impurity C (anhydrotetracycline)	Not more than 0.5%
	Impurity D (4-epianhydrotetracycline)	Not more than 0.5%

**ENQUIRY**