

Specification

Technical Data Sheet

Product Name	Kanamycin A Sulfate
---------------------	---------------------

Product No	12914940
-------------------	----------

CAS Number	25389-94-0
-------------------	------------

Storage Temperature	Ambient
----------------------------	---------

Molecular Weight	582.58
-------------------------	--------

Specification

Appearance	White crystalline powder
-------------------	--------------------------

Conclusion	USP
-------------------	-----

Loss on Drying	$\leq 4.0\%$
-----------------------	--------------

pH	6.5-8.5
-----------	---------

Assay	$\geq 750\text{u/mg}$
--------------	-----------------------

Residue on Ignition	$\leq 1.0\%$
----------------------------	--------------

Specification

Solubility	Freely soluble in water, insoluble in acetone in ethyl acetate and in benzene
Specific optical rotation	+112.0° to +123.0°
Total Impurities	≤ 3.0%
Any unknown impurity	≤ 0.5%
Identification (IR)	Conforms to Reference
Kanamycin B	≤ 4.0%
Residual solvent (ethanol)	≤ 2000ppm
Sulphate (SO₄)	11.0 - 17.7%
