TECHNICAL DATA SHEET

ALLANTOIN

PRODUCT DETAILS

Particular	Details
CAS No.	97-59-6
Molecular Formula	$C_4H_6N_4O_3$
Molecular Weight	158.11 g/mol

TEST SPECIFICATION

Sr. No.	Test Parameter	Specifications
1	Description	A white or almost white, crystalline powder.
2	Solubility	Slightly soluble in water, very slightly soluble in ethanol.
3	Identification – By TLC	The principal spot in the chromatogram obtained with test solution (b) corresponds to that in the chromatogram obtained with reference solution (a).
	Identification – By litmus paper test (blue to red)	A dark blue colour develops, which becomes red after cooling and pouring into about 10 ml of water.
	Identification – By litmus paper test (red to blue)	On heating about 0.5 g, ammonia vapour is evolved, which turns red litmus paper blue.
4	Acidity or Alkalinity	To 5 ml of solution A add 5 ml of carbon dioxide-free water, 0.1 ml of methyl red solution and 0.2 ml of 0.01M sodium hydroxide, the solution is yellow. Add 0.4 ml of 0.01M hydrochloric acid, the solution is red.
5	Optical Rotation (on solution A)	-0.100° to +0.100°
6	Reducing Substances	The solution remains violet for at least 10 min.
7	Sulphated Ash	Not more than 0.1 %
8	Loss on Drying (1.0 g, oven at 105°C)	Not more than 0.1 %
9	Related Substances by TLC	Any secondary spot in the chromatogram obtained with test solution (a) is not more intense than the principal spot in the chromatogram obtained with reference solution (b) (0.5 %).
10	Assay by Titrimetry (on dried basis)	Not less than 98.5% and not more than 101.0%

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