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# Specification

## Technical Data Sheet

<b>Product Name</b>	Ampicillin anhydrous
<b>Product No</b>	11160166
<b>CAS Number</b>	69-53-4
<b>Storage Temperature</b>	2 to 8 °C
<b>Molecular Weight</b>	349.40
	<b>Specification</b>
<b>Water</b>	12.0% - 15.0%
<b>Specific rotation</b>	+280 to +305
<b>Total impurity</b>	≤3.0%
<b>pH</b>	3.5-6.0
<b>Residual solvent</b>	dichloromethane: ≤ 600ppm :triethylamine: ≤320ppm :acetone: ≤3000ppm
<b>Assay</b>	90.0%-100.5%
<b>Content</b>	96 - 102%
<b>Appearance</b>	White crystalline powder
<b>Any unknown impurity</b>	≤0.25%
<b>Any impurity</b>	penicilloic acid: ≤1.0%; D-phenylcyclopropylamine ≤0.8%
<b>Sulfate ash</b>	<0.5%
<b>Dimer</b>	Ampicillin oligomer 1(n=1):≤1.0%
<b>Dimethylaniline</b>	20ppm