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## Specification Sheet

Product Name: **3,3'-Diaminobenzidine tetrahydrochloride hydrate**  
Specifications & Purity: **≥96%**  
SKU #: **D130018**

Parameter	Limit Values
Purity(HPLC)	96-100 (%)
Nitrogen by Elemental Analysis (anhydrous)	14.4-16 (%)
Water by Karl Fischer	4-13 (%)
Purity(titration with AgNO <sub>3</sub> )(dry basis)	95.5-104.5 (%)
Appearance (D130018)	White to Light Grey to Amber to Light Brown to Dark purple powder to crystal
Infrared spectrum	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless to Yellow-Brown to Black-Brown to Red to Purple,Clear5%	pass
NMR Spectrum 1H	Conforms to structure

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