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## Product Specification

Product Name:  
Hydroxyapatite – nanopowder, <200 nm particle size (BET), ≥97%, synthetic

Product Number:	677418	Ca <sub>5</sub> (OH)(PO <sub>4</sub> ) <sub>3</sub>
CAS Number:	12167-74-7	
MDL:	MFCD00010904	
Formula:	HCa <sub>5</sub> O <sub>13</sub> P <sub>3</sub>	
Formula Weight:	502.31 g/mol	

TEST	Specification
Appearance (Color)	Conforms to Requirements
White to Faint Blue	
Appearance (Form)	Powder
X-Ray Diffraction	Conforms to Structure
Assay	≥ 97.0
Purity by XRF Analysis, wt%	
Size	≤ 200 nm
Particle Size	
Size	≥ 9.4
Specific Surface Area: m <sup>2</sup> /g	
Product of Supplier	Confirmed
Engi-Mat Co.	

Specification: PRD.2.ZQ5.10000017256

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.