



CHEMSYNTH CORPORATION

(Exporter of chemical Raw materials)

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PRODUCT SPECIFICATIONS

NIACINAMIDE

NO.	TEST	SPECIFICATIONS	MOA
1.	Appearance	White crystalline powder	Visual
2.	Identification	<ol style="list-style-type: none">1. confirms2. Ammonia is evolved recognized by odour3. Yellow colour develops	<ol style="list-style-type: none">1. By Infrared absorption spectrophotometry comparing with spectrum obtained from Nicotinamide CRS2. Boil 0.1 gm with 1 ml dilute sodium hydroxide solution3. Dilute 2 ml of 5 % solution to 100 ml with water .To 2 ml of this, add 2 ml of cyanogen bromide and 25 gm/l solution of aniline and shake
3.	Melting Point	Between 128°C to 131°C	Melting point apparatus
4.	Loss on drying at 105°C	< 0.5% w/w	
5.	Residue on Ignition	< 0.1%	
6.	Heavy Metals	<30 ppm	
7.	pH	complies	pH of 5 % w/v solution between 6 to 7.50
8.	Related substance (by TLC)	complies	Not more than 0.25 %
9.	Assay (Titration)	>99.0 % and < 101.5%	Titration. Pyridine -3-carboxamide calculated with reference to dried substance
10.	Impurity content :Niacin Cosmetics grade	NMT 100ppm	HPLC
11.	Pharma grade	No Limit	HPLC