

Niacinamide Powder

Specification and Tests

1. **Appearance:** **white crystalline powder**
2. **Solution 5% in water:** **clear and colourless**
Proceed according to the test described in the monograph "Nicotinamide" of Ph. Eur.
3. **pH of 5% solution:** **6.0 - 7.5**
Proceed according to the test described in the monograph "Nicotinamide" of Ph. Eur.
4. **Identity:** **corresponds**
Infrared/UV absorbance:
Proceed according to the test described in the monograph "Niacinamide" of USP
5. **Melting range:** **128 - 131°C**
Proceed according to the test described in the monograph "Niacinamide" of USP, class I
6. **Loss on drying:** **max. 0.5%**
Proceed according to the test described in the monograph "Niacinamide" of USP

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7. Residue on ignition: **max. 0.1 %**
Proceed according to the test described in the monograph "Niacinamide" of USP
8. Heavy metals: **max. 20 ppm**
Proceed according to the test in the monograph "Niacinamide" of USP / method II
9. Lead: **max. 2 ppm**
Proceed according to the test described in the monograph "Niacinamide" of FCC (AAS)
10. Readily carbonizable substances: **passes test**
Proceed according to the test described in the monograph "Niacinamide" of USP.
11. Assay: dry basis **99.0 - 101.0% (dry basis)**
HPLC
Proceed according to the test described in the general part of USP.

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12. Niacin max. 0.5 %

HPLC

See 11. "Assay"

13. Fineness (US standard sieves):

| | |
|------------------------|----------|
| through sieve No. 100: | min. 90% |
| through sieve No. 200: | min. 60% |
| through sieve No. 230: | min. 50% |

14. Related substances: passes test

Proceed according to the test in the monograph "Nicotinamide" of Ph.Eur.

15. Residual solvents: meets USP requirements

Proceed according to the test described in the monograph "Niacinamide" of USP / method I

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