

Specification

**L-Asparagine 1-hydrate (Ph. Eur.) pure, pharma grade**

**A1668**

<b>Solubility:</b>	30 g/L (H <sub>2</sub> O)
<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A1668
<b>Product Name:</b>	L-Asparagine 1-hydrate (Ph. Eur.) pure, pharma grade
<b>Headline Comment:</b>	• All amino acids from AppliChem are of non-animal origin!
<b>Specifications:</b>	<p>Assay (titr., dried subst.): 99.0 - 101.0 %</p> <p><math>\alpha</math>20°C/D; 10 %, 3 N HCl, dried subst.: +33.7° - +36.0°</p> <p>Appearance of solution: passes test</p> <p>Identity: passes test</p> <p>Sulfated ash: max. 0.1 %</p> <p>Loss on drying: 10.5 - 12.5 %</p> <p>pH (2 %; H<sub>2</sub>O): 4.0 - 6.0</p> <p>Ammonium: max. 0.1 %</p> <p>Chloride: max. 0.02 %</p> <p>Sulfate: max. 0.02 %</p> <p>Fe: max. 0.001 %</p> <p>Related subst. (HPLC)</p> <p>Impurity A: max. 0.5 %</p> <p>Impurity C: max. 0.1 %</p> <p>Each unspecified impurity: max. 0.05 %</p> <p>Total impurities: max. 0.8 %</p> <p>Elemental impurities (according to ICH Q3D):</p> <p>Class 1 (Cd): max. 0.5 ppm</p> <p>Class 2B (Au): max. 10 ppm</p> <p>Class 2B (Rh): max. 10 ppm</p> <p>Class 2A (Co): max. 5 ppm</p> <p>Class 3 (Li): max. 55 ppm</p> <p>Class 1 (Pb): max. 0.5 ppm</p> <p>Class 1 (As): max. 1.5 ppm</p>

**AppliChem GmbH**

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**A1668**

	Class 1 (Hg): max. 1.5 ppm Class 2A (V): max. 10 ppm Class 2A (Ni): max. 20 ppm Class 2B (Tl): max. 1 ppm Class 2B (Pd): max. 10 ppm Class 2B (Ir): max. 10 ppm Class 2B (Os): max. 10 ppm Class 2B (Ru): max. 10 ppm Class 2B (Pt): max. 10 ppm Class 2B (Se): max. 15 ppm Class 2B (Ag): max. 15 ppm Class 3 (Sb): max. 120 ppm Class 3 (Ba): max. 140 ppm Class 3 (Mo): max. 25 ppm Class 3 (Cr): max. 25 ppm Class 3 (Cu): max. 250 ppm Class 3 (Sn): max. 600 ppm
<b>WGK:</b>	1
<b>Storage:</b>	RT
<b>Molecular Formula:</b>	$C_4H_8N_2O_3 \cdot H_2O$
<b>M:</b>	150.14 g/mol
<b>CAS:</b>	5794-13-8
<b>EINECS:</b>	200-735-9
<b>CS:</b>	29241900

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