

Specification

**L-Arginine Hydrochloride (Ph. Eur., USP) pure, pharma grade**

**A1700**

<b>Solubility:</b>	900 g/L (H <sub>2</sub> O)
<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A1700
<b>Product Name:</b>	L-Arginine Hydrochloride (Ph. Eur., USP) pure, pharma grade
<b>Headline Comment:</b>	• All amino acids from AppliChem are of non-animal origin!
<b>Specifications:</b>	<p>Assay (titr., calc. on dried subst.): 98.5 - 101.0 %  <math>\alpha</math>20°C/D; 8 %, 6 M HCl: +21.4° - +23.6°            Appearance of solution: passes test            Identity: passes test            Heavy metals (as Pb): max. 0.002 %            Sulfated ash: max. 0.1 %            Loss on drying (2 h; 105°C): max. 0.2 %  <math>\alpha</math>20°C/D; 8 %, 250 g/L HCl, calc. on dried subst.: +21.0° - +23.5°            Ammonium: max. 0.02 %            Chloride: 16.5 - 17.1 %            Sulfate: max. 0.03 %            Fe: max. 0.001 %            Ninhydrin positive substances (HPLC)            each individual impurity: max. 0.2 %            Total impurities: max. 0.5 %            Ninhydrin positive substances (TLC)            Each individual impurity: max. 0.5 %            Total impurities: max. 2 %            Elemental impurities (according to ICH Q3D):            Class 1 (Cd): max. 0.5 ppm            Class 2B (Au): max. 10 ppm            Class 2B (Rh): max. 10 ppm            Class 2A (Co): max. 5 ppm            Class 3 (Li): max. 55 ppm</p>

**AppliChem GmbH**

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	Class 1 (Pb): max. 0.5 ppm Class 1 (As): max. 1.5 ppm Class 1 (Hg): max. 1.5 ppm Class 2A (V): max. 10 ppm Class 2A (Ni): max. 20 ppm Class 2B (Tl): max. 0.8 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>	$C_6H_{14}N_4O_2 \cdot HCl$
<b>M:</b>	210.66 g/mol
<b>CAS:</b>	1119-34-2
<b>EINECS:</b>	214-275-1
<b>CS:</b>	29224985

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