

**PRODUCT CODE: 141121****Ammonium Chloride (USP, BP, Ph. Eur.) pure, pharma grade**

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 $\text{H}_4\text{ClN}$  $\text{NH}_4\text{Cl}$ 

M.= 53,49

CAS [12125-02-9]

EINECS 235-186-4

TARIC 2827 10 00 00

**PHYSICAL DATA:** crystalline powder, White, Soluble in water 370 g/l at 20 °C D 20/4 1,53 • B.P.: 520 °C • pH4,5 - 5,5 •

**BIBLIOGRAPHY:** Merck Index **13**, 510 Sax **ANE500** • Safety **2**, **233 D** • Römp **8**, **187** • Kühn-Birett **A 16** • ACS **XI** • ISO 6353/2-1983 R - 5, 7 • BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** •

**HAZARDOUS:** C.E: 017-014-00-8 • RTECS: BP 4550000 • LD L0 oral rbt 1.000 mg/kg • LD50 oral mus 1.300 mg/kg • LD50 oral rat 1.650 mg/kg • LD50 ipr mus 1.439 mg/kg VLA-EC 20 mg/m3 VLA-ED 10 mg/m3



H: H302 • H319 •

P: P264 • P270 • P280 • P301+P312 • P305+P351+P338 • P501 • P330 • P337+P313 •

**SPECIFICATIONS:**

Assay (Arg.) calc. a.d.s.

99,5-100,5%

Identity :

Identity according to Pharmacopoeias:

passes test

pH of 5% solution

4,6-6,0

**Maximum limit of impurities**

Appearance of solution

passes test

Acidity or alkalinity	passes test
Loss on drying at 100°C	0,5%
Residue on ignition (as SO <sub>4</sub> )	0,1 %
Phosphate (PO <sub>4</sub> )	0,002 %
Sulfate (SO <sub>4</sub> )	0,005%
Residual solvents (Ph.Eur/USP)	passes test
Bromide and iodide	passes test
Thiocyanate	passes test
Heavy metals (as Pb)	0,001%
<b>Residual metals ICP: (according to EMEA/CHMP/SWP/4446/2000)</b>	
<b>Class 1A (Pt, Pd)</b>	<b>10 ppm</b>
<b>Class 1B (Ir, Rh, Ru, Os)</b>	<b>10 ppm</b>
<b>Class 1C (Mo, Ni, Cr, V)</b>	<b>25 ppm</b>
<b>Class 2 (Cu, Mn)</b>	<b>250 ppm</b>
<b>Class 3 (Fe, Zn)</b>	<b>1.300 ppm</b>
As	0,0001 %
Ca	0,02 %
Cd	0,00005 %
Fe	0,002 %
Hg	0,00015 %
Pb	0,00005 %