



**PRODUCT CODE: IG2108**

**Hydrochloric Acid 2 mol/l (2N) pharma grade**

Indicator: Methyl Red

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HCl

M.= 36,46

CAS [7647-01-0]

EINECS 231-595-7

TARIC 2806 10 00 00

**SYNONYMS:** Muriatic Acid

**PHYSICAL DATA:** liquid, Clear, Colourless, Miscible with water • D 20/4 1,035 • pH1 •

**BIBLIOGRAPHY:**

**HAZARDOUS:** LD50 oral rbt 900 mg/kg • LC L0 man 1300ppm • LC50 rat 3124ppm (V) / 1h • LD50 ipr mus 1.449 mg/kg VLA-EC (HCl) 10 ppm15 mg/m<sup>3</sup> VLA-ED (HCl) 7,6 mg/m<sup>3</sup> VLA-ED (HCl) 5 ppm



H: H290 •

P: P234 • P390 • P406 •

**TRANSPORT REGULATIONS:** UN: 1789 • ADR: 8/III • IMDG: 8/III • IATA: 8/III • PAX: 852 • CAO: 856 • (E) •

**WEIGHT/VOLUME INFORMATION:** 1l~1,035 kg 1kg~0,966 l

**OBSERVATIONS:** Product controlled as a drug precursor. •

**SPECIFICATIONS:**

Titer at 20°C

1,000 ±0,001

Identity :

Identity (Cl)

passes test

Identity Acidity	passes test
<b>Maximum limit of impurities</b>	
Appearance of solution	passes test
Non-volatile matter	0,01 % *
Residue on ignition (as SO <sub>4</sub> )	0,005 % *
Chlorine	0,0001% *
Sulfate (SO <sub>4</sub> )	0,0005% *
Sulfite	passes test *
Residual solvents (Ph.Eur/USP) excluded by the manufacturing process	passes test
Heavy metals (as Pb)	0,0002% *
<b>Residual metals ICP: (according to EMEA/CHMP/SWP/4446/2000)</b>	
<b>Class 1A (Pt, Pd)</b>	<b>1 ppm</b>
<b>Class 1B (Ir, Rh, Ru, Os)</b>	<b>1 ppm</b>
<b>Class 1C (Mo, Ni, Cr, V)</b>	<b>2,5 ppm</b>
<b>Class 2 (Cu, Mn)</b>	<b>25 ppm</b>
<b>Class 3 (Fe, Zn)</b>	<b>130 ppm</b>

**This product has been manufactured with raw material which passes CODEX.**

**(\*) These results come from the analysis of the Raw material used to do the solution.**