



**PRODUCT CODE: 131020**

**Hydrochloric Acid 37% (Reag. USP) for analysis, ACS, ISO**

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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 1,19 • M.P.: -25 °C • B.P.: 85 °C • Vap. press. (20 °C) 20 hPa •

**BIBLIOGRAPHY:** Merck Index **13**, 4.801 14, 4.780 Sax **HHL000** • Safety **2**, **1892 D** • Römp **8**, **3672** • Fieser **4450 5333 6283** • ACS **XI** • ISO 6353-2/1983 R - 13, 17 • BP.**2018** • USP -**NF 37** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012]P XIII, 423 •

**HAZARDOUS:** C.E: 017-002-01-X • RTECS: MW 4025000 • LD50 oral rbt 900 mg/kg • LC L0 inh hmn 1300 ppm / 30 min • LC50 inh hmn 3124 ppm / 1h • VLA-EC (HCl) 10 ppm15 mg/m3 VLA-ED (HCl) 7,6 mg/m3 VLA-ED (HCl) 5 ppm



H: H290 • H335 • H314 •

P: P234 • P390 • P406 • P264 • P280 • P302+P352 • P321 • P332+P313 • P362 • P305+P351+P338 • P337+P313 • P261 • P271 • P304+P340 • P403+P233 • P312 • P405 • P501 •

**TRANSPORT REGULATIONS:** UN: 1789 • ADR: 8/II • IMDG: 8/II • IATA: 8/II • PAX: 851 • CAO: 855 • (E) •

**WEIGHT/VOLUME INFORMATION:** 1l~1,19 kg 1kg~0,84 l

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

**SPECIFICATIONS:**

Assay (Acidim.) 36,5-38,0 %

Density at 15/4 >= 1,19

**Maximum limit of impurities**

APHA colour	10
Appearance	passes test
Residue on ignition (as SO <sub>4</sub> )	0,0005 %
Chlorine (Cl)	0,0001%
Ammonium (NH <sub>4</sub> )	0,0003%
Bromide (Br)	0,005%
Phosphate (PO <sub>4</sub> )	0,00005 %
Sulfate (SO <sub>4</sub> )	0,0001%
Sulfite	0,0001%
Extractable organic substances	passes test
Heavy Metals (ICP-OES)	0,0001 %

**Metals by ICP [in mg/Kg (ppm)]**

Ag	0,05
Al	0,1
As	0,01
Au	0,1
B	0,2
Ba	0,05
Be	0,02
Bi	0,05
Ca	0,5
Cd	0,01
Co	0,01
Cr	0,02
Cu	0,02
Fe	0,2
Ga	0,05
Ge	0,02
Hg	0,1
In	0,05
K	0,1
Li	0,02
Mg	0,1
Mn	0,01
Mo	0,01
Na	0,5
Ni	0,02
Pb	0,02
Pt	0,1
Sb	0,01
Si	0,1
Sn	0,1
Sr	0,02
Ti	0,05
Tl	0,02
V	0,01
Zn	0,1
Zr	0,02

