



PRODUCT CODE: 141020

Hydrochloric Acid 37% (USP-NF, BP, Ph. Eur.) pure, pharma grade

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.2020** • **USP -NF 37** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **10 11** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012JP 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 %
Identity :	
Identity according to Pharmacopoeias:	passes test

Maximum limit of impurities

Appearance of solution	passes test
Non-volatile matter	0,01 %
Residue on ignition (as SO ₄)	0,005 %
Chlorine (Ph. Eur.)	0,0004%
Ammonium (NH ₄)	0,001%
Sulfate (SO ₄)	0,0005%
Sulfate (SO ₄) (USP-NF)	passes test
Sulfite (USP-NF)	passes test
Residual solvents (Ph.Eur/USP)	passes test
Bromine or Chlorine (USP-NF)	passes test
Bromide or Iodide (USP-NF)	passes test

Elemental impurities (ICH Q3D):

Class 1

Cd	0,5 ppm
Pb	0,5 ppm
As	1,5 ppm
Hg	1,5 ppm

Class 2A

Co	5 ppm
V	10 ppm
Ni	20 ppm

Class 2B

Tl	0,8 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm

Class 3

Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm