



PRODUCT CODE: 133378

Hydrochloric Acid 25% for analysis, ISO

HCl
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 1,124 • M.P.: -70 °C • B.P.: 107 °C • pH1
• Vap. press. (20 °C) 12 hPa •

BIBLIOGRAPHY: Merck Index **12**, 4.821 13, 4.801 Sax **HHL000** • Römp **8** , **3672** •

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 • LC50 rat 3124ppm (V) / 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~1,12 kg 1kg~0,89 l

OBSERVATIONS: Product controlled as a drug precursor. •

SPECIFICATIONS:

Minimum assay (Acidim.)

25,0%

Density at 15/4

$\geq 1,12$

Maximum limit of impurities

APHA colour	10
Residue on ignition (as SO ₄)	0,0005 %
Chlorine (Cl)	0,0001%
Ammonium (NH ₄)	0,0003%
Bromide (Br)	0,005%
Sulfate (SO ₄)	0,0001%
Sulfite (SO ₃)	0,0001%
Heavy metals (as Pb)	0,0001%
Al	0,00001 %
As	0,000001 %
Ba	0,000005 %
Be	0,000002 %
Ca	0,00005 %
Cd	0,000001 %
Co	0,000001 %
Cr	0,000002 %
Cu	0,000002 %
Fe	0,00002 %
K	0,00001 %
Li	0,000002 %
Mg	0,00001 %
Mn	0,000001 %
Na	0,00005 %
Ni	0,000002 %
Pb	0,000002 %
Sr	0,000002 %
Zn	0,000005 %