



PRODUCT CODE: 131028

Hydrofluoric Acid 48% for analysis, ACS, ISO

HF

M.= 20,01

CAS [7664-39-3]

EINECS 231-634-8

TARIC 2811 11 00 00

PHYSICAL DATA: liquid, Clear, Colourless, Miscible with water • D 20/4 1,16 • M.P.: -35 °C • B.P.: 106 °C •

BIBLIOGRAPHY: Merck Index **13**, 4.811 Sax **HHU500** • Römp **8** , **1347** • Kühn-Birett **F 1** • Fieser **6284 9238** • ACS **XI** • ISO- 6353/3-1987 R - 67 , 35 •

HAZARDOUS: C.E: 009-003-00-1 • RTECS: MW 7875000 • LC L0 inh hmn 50 ppm / 30 min • LC50 inh rat 1276 ppm / 1h • LD L0 skn mus 500 mg/kg • VLA-EC (HF) 2,5 mg/m3 VLA-EC (HF) 3 ppm VLA-ED (HF) 1,8 ppm1,5 mg/m3



H: H330 • H310 • H300 • H314 •

P: P260 • P262 • P264 • P270 • P271 • P501 • P280 • P284 • P301+P310 • P301+P330+P331 • P302+P350 • P303+P361+P353 • P304+P340 • P305+P351+P338 • P310 • P320 • P321 • P322 • P330 • P338 • P361 • P363 • P403+P233 • P405 •

TRANSPORT REGULATIONS: UN: 1790 • ADR: 8(6.1)/II • IMDG: 8(6.1)/II • IATA: 8(6.1)/II • PAX: 851 • CAO: 855 • (E) •

WEIGHT/VOLUME INFORMATION: 1l~1,16 kg 1kg~0,86 l

OBSERVATIONS: Product controlled as dual purpose. • Storage between 15 and 18°C. •

SPECIFICATIONS:

Assay (Acidim.)

48,0-51,0 %

Maximum limit of impurities

Reducing substance to KMnO ₄	passes test
Residue on ignition (as SO ₄)	0,0005 %
Chloride (Cl)	0,0005%
Phosphate (PO ₄)	0,0001 %
Sulfate and sulfite (as SO ₄)	0,0005%
Fluosilicic acid (F ₆ H ₂ Si)	0,01%
As	0,000005 %
Heavy metals (as Pb)	0,00005%

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

Ag	0,04
Al	0,1
Au	0,1
B	0,05
Ba	0,2
Be	0,04
Bi	0,05
Ca	0,5
Cd	0,02
Co	0,04
Cr	0,02
Cu	0,04
Fe	0,2
Ga	0,05
Ge	0,02
Hg	0,1
In	0,05
K	0,1
Li	0,04
Mg	0,2
Mn	0,1
Mo	0,02
Na	0,2
Ni	0,02
Pb	0,05
Pt	0,1
Sb	0,02
Si	0,1
Sn	0,05
Sr	0,04
Ti	0,05
Tl	0,02
V	0,02
Zn	0,05
Zr	0,05