



PRODUCT CODE: 141037

Nitric Acid 69% (USP-NF, BP, Ph. Eur.) pure, pharma grade

HNO₃

M.= 63,01

CAS [7697-37-2]

EINECS 231-714-2

TARIC 2808 00 00 00

PHYSICAL DATA: liquid, Clear, Colourless, Miscible with water • D 20/4 1,41 • M.P.: ~ -32 °C • B.P.: 122 °C • pH1 • Vap. press. 9,4 hPa •

BIBLIOGRAPHY: Merck Index **12**, 6.671 13, 6.608 Sax **NED500** • Safety **2** , **2546 B** • Fieser **1733 3212 4356 5476** • ACS **XI** • ISO 6353/2-1983 R - 19 , 26 • BP.**2018** • USP -**NF 36** • Ph. Eur. **8.0** (2014) **9.0** (2017) •

HAZARDOUS: C.E: 007-004-00-1 • RTECS: QU 5775000 • LD L0 oral hmn 430 mg/kg • LC50 inh rat 67 ppm / 4h • VLA-EC 1 ppm10 mg/m3 VLA-ED 5,2 mg/m3



H: H314 • H272 • EUH071 •

P: P210 • P220 • P221 • P260 • P264 • P501 • P280 • P301+P330+P331 • P303+P361+P353 • P304+P340 • P305+P351+P338 • P310 • P321 • P338 • P363 • P370+P378 • P405 •

TRANSPORT REGULATIONS: UN: 2031 • ADR: 8(5.1)/II • IMDG: 8(5.1)/II • IATA: 8(5.1)/II • PAX: F • CAO: 855 • (E) •

WEIGHT/VOLUME INFORMATION: 1l~1,411 kg 1kg~0,709 l

OBSERVATIONS: Storage away from direct light. •

SPECIFICATIONS:

Assay (Acidim.)

69,0-70,0 %

Identity :
Identity according to Pharmacopoeias: passes test

Maximum limit of impurities

Appearance of solution passes test
Residue on ignition (as SO₄) 0,0005 %
Chloride (Cl) 0,00005%
Sulfate (SO₄) 0,0001%
Clarity and colour passes test
Residual solvents (Ph.Eur/USP) passes test
Heavy metals (as Pb) 0,00002%

Fe 0,00002 %

Elemental impurities (ICH Q3D):

Class 1

Cd 0,5 ppm
Pb 0,2 ppm
As 0,01 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