

PRODUCT CODE: 141037

Nitric Acid 69% (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.2025** • USP **-NF 38** • Ph. Eur. **10.0** (2019) **11.0** (2023) •

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 • H290 • H331 • 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.) 68,0-70,0 %

Identity :

Identity according to Pharmacopoeias: passes test

Maximum limit of impurities

Appearance of solution passes test

Residue on ignition (as SO ₄)	0,0005 %
Chloride (Cl)	0,00005%
Sulfate (SO ₄)	0,0001%
Clarity and colour	passes test
Residual solvents (Ph.Eur.)	passes test
Heavy metals (as Pb)	0,00002%

Fe 0,0010 %

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