



PRODUCT CODE: 131037

Nitric Acid 69% for analysis, ACS, ISO

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.)

68,0-70,0 %

Density at 20/4	1,410 - 1,420
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Maximum limit of impurities

APHA colour	10
Reducing substance to KMnO ₄	passes test
Residue on ignition (as SO ₄)	0,0005 %
Chloride (Cl)	0,00005%
Phosphate (PO ₄)	0,0001 %
Sulfate (SO ₄)	0,0001%
Nitrite (NO ₂)	0,0005%
As	0,000001 %
Heavy metals (as Pb)	0,00002%

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

Ag	0,02
Al	0,2
Au	0,1
B	0,05
Ba	0,02
Be	0,02
Bi	0,05
Ca	0,5
Cd	0,01
Co	0,02
Cr	0,1
Cu	0,01
Fe	0,2
Ga	0,05
Ge	0,02
Hg	0,1
In	0,05
K	0,1
Li	0,02
Mg	0,1
Mn	0,01
Mo	0,02
Na	0,5
Ni	0,05
Pb	0,02
Pt	0,1
Sb	0,02
Si	0,1
Sn	0,05
Sr	0,02
Ti	0,05
Tl	0,02
V	0,02
Zn	0,05
Zr	0,05