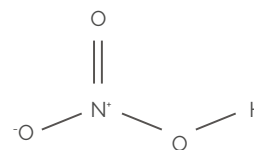


CONCENTRATED NITRIC ACID

- **Chemical formula:** HNO_3
- **CAS No.:** 7697-37-2
- **HS No.:** 2808 0000
- **Registration No.:** 01-2119487297-23-0033
- **Appearance:** A colorless liquid that is used in the manufacture of inorganic and organic nitrates and nitro compounds for fertilizers, dye intermediates, explosives, and many different organic chemicals.



GENERAL CHARACTERISTICS

Parameter	Unit	Requirements
Density at 20 °C	kg/m ³	1.513
Boiling point	°C	83
Melting point	°C	-41

APPLICATIONS AREA

CNA is an important basic material used of **nitration of organic compounds**, it is used also as an **oxidising agent**, rocket propellant, analytical reagent, etchant and cleaning agent, and in woodworking.

SEGMENTS

- Nitration of organic compounds
- Oxidising agent
- Rocket propellant
- Woodworking
- Analytical reagent
- Etchant and cleaning agent

SPECIFICATIONS

Parameter	Unit	Requirements
Total nitric acid (as HNO₃)	wt. % min.	98.0
Nitrous acid	wt. % min.	0.15
Chlorides (as Cl ⁻)	wt. % min.	0.01
Residue after annealing	wt. % min.	0.03

SYNONYMS

Aqua fortis
Hydrogen nitrate

HEALTH HAZARD EFFECTS

May intensify fire; oxidiser. Causes severe skin burns and eye damage. May be corrosive to metals.

ADR REGULATIONS

UN 2031 NITRIC ACID, other than red fuming, with more than 70% acid, 8, I, (E)

PACKAGING

Rail tank cars
Tank containers