

NITRIC ACID

Property	Specification	Analytical Method
Colour	Clear liquid	Visual
Purity, Wt. %	MIN.60	ASTM E1584-17
HNO ₂ , ppm	MAX.1500	PTM 1785
Residue on ignition, Wt. %	Max.0.03	ASTM D7348
Fe, (ppm)	Max.10	ASTM D2790

⇒ Nitric acid (HNO₃), also known as aqua fortis and spirit of niter, is a highly corrosive strong mineral acid. The pure compound is colorless, but older samples tend to acquire a yellow cast due to decomposition into oxides of nitrogen and water.

In KAROON Petrochemical Company, NA is produced by the Oxidation of Ammonia (NH₃) at around 925° C at 12.6 Bar a pressure in presence of Platinum (Pt) Catalyst.

■ Application areas

The main use of nitric acid is for the production of fertilizers. Nitric acid is neutralized with ammonia to give ammonium nitrate. The other main applications are for the production of explosives, nylon Precursors and specialty organic compounds.

■ Handling and storage conditions

Nitric acid must be kept in well ventilated spaces, away from any source of fire or flame, isolated from any incompatible substances and away from any source of heat. The containers must not be made of glass or metal and direct solar exposure is prohibited.

When handling the substance, smoking and food consumption are not allowed. The handlers must wear special equipment which prohibits inhalation, ingestion and substance's contact with skin or eyes.

Eyeglasses, neoprene gloves, boots and breathing apparatus are recommended.

■ Packing details

Bulk, In Road tankers

■ Licensor: Chematur



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