



Technical Data Sheet

Version:01

Revision Date 06/01/2025

Product name	Nitric Acid 50%		
Mol.Formula	HNO ₃	CAS No.	7697-37-2
Mol.wt.	63 g\mol	Storage condition	Protected from light

Sr.no.	Item test	units	Specification
1.	Appearance		Clear, colourless or almost colourless liquid
2.	Identification		Passes test
3.	Solubility		Miscible with water
4.	Appearance of sol.		The solution is clear and not more intensely coloured than reference solution
5.	Density	g/cm ³	About 1.3 g/cm ³
6.	Chlorides	PPM	Max 0.5 PPM
7.	Sulfates	PPM	Max 2 PPM
8.	Assay	%	48 -52 %





Section 2. Hazards Identification

Corrosive to Metals, (Category 1)	H290: May be corrosive to metals.
Acute toxicity, (Category 3)	H331: Toxic if inhaled.
Skin corrosion, (Sub-category 1A)	H314: Causes severe skin burns and eye damage.
Serious eye damage, (Category 1)	H318: Causes serious eye damage
H290 May be corrosive to metals.	
H314 Causes severe skin burns and eye damage.	
H331 Toxic if inhaled.	
Precautionary Statements	
P234 Keep only in original packaging.	
P261 Avoid breathing mist or vapors.	
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.	
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.	
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.	
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	

