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Technical Data Sheet

HYDROGEN PEROXIDE 50%

Product : HYDROGEN PEROXIDE 50%
Grade : Technical Grade
Chemical Formula : H_2O_2
CAS Number : 7722-84-1

Properties:

Appearance	Clear, colorless liquid free from suspended impurities and dust particles.
Odor	Slightly Pungent
Identification Test: Shake 1 mL of sample with 10 mL of water containing 1 drop of 2 N sulfuric acid, and add 2 mL of ether. The subsequent addition of a drop of potassium dichromate TS produces an evanescent blue color in the water layer that upon agitation and standing passes into the ether layer.	Complies
Boiling Point @ 760mm Hg, °C	114 °C
Freezing Point °C	(-) 52 °C
Active Oxygen (%)	23.5
Shelf Life/Re-test date	12 months from date of manufacturing, under recommended storage conditions.

Specifications:

Sr No	Parameters	Units	IS 2080: 2021	IPL Specifications	Method of Analysis
1	Strength of H_2O_2	% w/w	Min. 50.0	Between 50.00 to 50.80	By KMnO4 Titration
2	Stability as O2 emitted /25 ml sample at 100 ºC	ml/minute	Max 0.3	< 0.30	By Gasometric
3	Acidity (as H2SO4)	gr/100ml	0.015-0.05	< 0.05	By NaOH Titration

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Sr No	Parameters	Units	IS 2080: 2021	IPL Specifications	Method of Analysis
4	Residue on evaporation at 105 ºC	gr/100ml	Max 0.20	< 0.20	By Evaporation
5	Residue on ignition	gr/100ml	Max 0.05	< 0.05	By Ignition
6	Iron (as Fe)	ppm	Max 1.0	< 1.0	By Colorimetric
7	Copper (as Cu)	ppm	Max 0.1	< 0.1	By Colorimetric
8	Lead (as Pb)	ppm	Max 10.0	< 2.0	By Colorimetric
9	Arsenic (as As_2O_3)	ppm	Max 2.0	< 0.5	By Modified Gutzeit method
10	Apparent pH	--	--	Between 0.5 to 2.5	By PH Meter
11	Specific gravity @ 20 ºC	gm/cc	--	Between 1.190 to 1.195	By Hydrometer

Note: The Product meets requirements for Stabilized hydrogen peroxide, Grade 3 of Indian Standard IS 2080: 2021

Transport

Transportation should take place between -25°C and 60°C, though elevated temperatures (>40°C) should be avoided if possible.