

Hydrogen Peroxide

CAS 7722-84-1 · H_2O_2 · 50% technical

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1. Product identity

Product name	Hydrogen Peroxide
Synonyms	H2O2, hydrogen peroxide 50, peroxide bleach
C.A.S. number	7722-84-1 (hydrogen peroxide). The 50% material is an aqueous solution of this single substance, so the CAS is definitive.
Molecular formula	H2O2
Molecular weight	34.01 g/mol (given as 34.0 on the ILO ICSC card). This is the molecular weight of hydrogen peroxide itself; the 50% product is a water solution and has no single molecular weight.
Grade supplied against	50% technical
Appearance	Clear, colourless liquid with a slightly pungent/sharp odour. No suspended matter.
Product group	Industrial Salts & Inorganics
HSN code	2847 00 00
Country of origin	As stated on the producer's documents for the lot supplied; confirmed at offer stage
Packing	Road tanker · 240 kg drum
Storage	Store cool, shaded and well ventilated, out of direct sunlight and UV, away from all heat sources. Containers and tanks must be VENTED - never seal tightly, because slow decomposition builds pressure. Use only passivated aluminium, 304L/316L stainless steel or approved vented HDPE; keep the system scrupulously clean. Keep separated from combustibles, organics, reducing agents, acids, alkalis and metals, and keep out of drains. Store in a bunded area with a water deluge/dilution facility. Never return decanted or unused material to the original container. Stock rotates - strength falls slowly on storage.

2. Analytical specification

S. No.	Test parameter	Specification	Method
1	Description	Clear, colourless liquid with a slightly pungent/sharp odour. No suspended matter.	Visual
2	Identification	Conforms to the substance supplied	Instrumental or chemical test, per method agreed
3	Assay / grade	50% technical	Titrimetry or instrumental, per method agreed
4	Physical state	Liquid (aqueous solution)	Visual
5	Solubility in water	Miscible with water in all proportions	Per the test method agreed

S. No.	Test parameter	Specification	Method
6	pH	Acidic as supplied. One 50% w/w producer SDS states pH < 2.0 and another 50% SDS states pH 3 measured on the neat product. The figure depends on the acid stabiliser package used, so publish the value from your own batch COA and state that it refers to the undiluted 50% w/w solution.	Potentiometry
7	Relative density	1.20 g/mL at 20 degC (Solvay technical data for 50% w/w); relative density 1.19-1.20 (Columbus Chemical 50% technical SDS)	Densitometry / hydrometry
8	Melting / freezing point	-52 degC freezing point for 50% w/w aqueous solution (Solvay technical data). Pure hydrogen peroxide freezes at about -0.4 degC, and the 70% and 90% solutions at about -39 degC and -11 degC, so do not carry a value across concentrations.	Capillary / thermal
9	Boiling point	114 degC at 760 mmHg for 50% w/w solution (Solvay technical data). In practice the solution decomposes rather than distilling; never boil or evaporate it.	Distillation range
10	Flash point	Not flammable - hydrogen peroxide solution has no flash point. It is an oxidiser: it will intensify a fire and can cause combustible material (wood, paper, cloth, sawdust) to ignite spontaneously as it dries.	Not applicable — the substance is not combustible
11	Additional parameters	To the specification agreed before order	As agreed

3. Transport classification

UN 2014 · Class 5.1 (Oxidising substances) with subsidiary hazard 8 (Corrosive) · Packing group II

Proper shipping name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)

What this document is. This is a product specification sheet. It states the grade this material is supplied against, its packing and its identity. **It is not a certificate of analysis, it carries no test results, and it certifies no batch.** Tested values for the consignment actually loaded appear on the batch certificate of analysis issued against that batch, which travels with the despatch documents. Identity and physical data are drawn from PubChem, the ECHA CLP inventory and ILO safety cards; the producer's documents for the grade quoted govern. Velora Chemicals Private Limited is a bulk supplier and trader, not a manufacturer.