

Bleach Liquid

Sodium hypochlorite solution

Product Description

Liquid bleach used for whitening, disinfection, and stain removal.

Certificate of Analysis

HSN Code: 3808.93

CAS Number: 7681-52-9

Classification: Hazardous

Parameter	Specification	Test Method
Product / Grade	Sodium Hypochlorite Solution (Bleach Liquid) — Industrial / Household grade	Documentation
Available Chlorine (a	0.5 – 15.0% (common: 3–6% household; 10–15% industrial)	Titrimetric (Iodometric)
Hypochlorite (as NaOCl, wt%)	Equivalent to available chlorine specification	Calculation / Titration
Specific Gravity (25 °C)	1.03 – 1.20 (depends on strength)	Pycnometer / Density meter
pH (at 1% solution)	11.0 – 13.5	pH meter
Free Alkali (as NaOH)	"d 1.0 % (grade dependent)	Titrimetric
Stabilizer / Sodium Carbonate	As per formulation (if present)	Documentation / Titration
Chloride (as Cl{)	"d 0.5 % (typical)	Ion Chromatography / Titration
Sodium Chlorate (as	"d 0.5 % (industrial limit)	Ion Chromatography
Residual Active (after storage test)	Within specified shelf stability limits (batch dependent)	Titration / Stability test
Iron (as Fe)	"d 0.01 %	AAS / Colorimetric
Colour (APHA / Pt-Co)	"d 100 (pale yellow to greenish)	Photometric
Odour	Characteristic chlorine odour	Sensory
Residue on Evaporation / Non-volatile Matter	"d 0.1 %	Gravimetric
Microbial Load	Not applicable / negligible (chemical biocide)	NA

Physical Properties

Appearance: Clear to slightly yellow-green aqueous solution; characteristic chlorine odour; free from suspended solids

Odor: Characteristic chlorine odour

Solubility: Fully miscible with water

Packing: 1 L, 2 L, 5 L HDPE bottles (household grades), 25 L / 200 L HDPE drums (industrial grades), 1000 L IBCs / tanks

Storage: Store in a cool, shaded, well-ventilated area away from direct sunlight, heat sources and acids. Keep containers tightly closed.

Safety & Handling

PPE: Chemical-resistant gloves, eye protection, protective clothing

Hazards:

- Corrosive
- Oxidizing
- Releases chlorine gas
- Forms toxic chlorinated compounds