



Product Specification

cdhfinechemical.com

PERCHLORIC ACID 70% AR FOR DIAMOND INDUSTRY

| | | |
|---|--|-------------------------|
| PRODUCT CODE | 605085 | |
| SYNONYMS | N/A | |
| C.I. NO. | N/A | |
| CASR NO. | 7601-90-3 | |
| ATOMIC OR MOLECULAR FORMULA | HClO₄ | |
| ATOMIC OR MOLECULAR WEIGHT | 100.46 | HClO₄ |
| PROPERTIES | Strong oxidizing agent, will ignite vigorously in contact with organic materials, or detonate by shock or heat. | |
| PARAMETER | LIMIT | |
| Description | A clear liquid colour not more than 10 Hazen units. | |
| Solubility | Mix 50 ml with 50 ml of water. The solution is clear & colourless with no separate phases. | |
| Minimum assay (By acid imetric) | 70.0% | |
| Wt. per ml at 20°C | About 1.67 g | |
| Substances insoluble in ethanol | Passes test. | |
| MAXIMUM LIMIT OF IMPURITIES | | |
| Residue on ignition (as SO ₄) | 0.003% | |
| Chloride (Cl) | 0.0003% | |
| Free chlorine (Cl ₂) | 0.00005% | |
| Nitrogen compound (N) | 0.001% | |
| Phosphate & Silicate | 0.0005% | |
| Sulphate (SO ₄) | 0.001% | |
| Cadmium (Cd) | 0.000005% | |
| Copper (Cu) | 0.00001% | |
| Iron (Fe) | 0.0001% | |
| Lead (Pb) | 0.000005% | |
| Manganese (Mn) | 0.000005% | |
| Silver (Ag) | 0.00001% | |
| Zinc (Zn) | 0.00001% | |
| Strontium (Sr) | 0.000005% | |
| Titanium (Ti) | 0.00001% | |
| Nickel (Ni) | 0.00001% | |
| Potassium (K) | 0.00001% | |
| Sodium (Na) | 0.0001% | |
| Chlorate (ClO ₃) | 0.001% | |
| Aluminium (Al) | 0.00001% | |
| Arsenic (As) | 0.000005% | |
| Barium (Ba) | 0.000005% | |
| Beryllium (Be) | 0.000005% | |
| Bismuth (Bi) | 0.00001% | |
| Calcium (Ca) | 0.00005% | |



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| Cobalt (Co) | 0.000005% |
| Lithium (Li) | 0.000005% |
| Magnesium (Mg) | 0.00005% |

Note(s) : Assay (if applicable) method mentioned.

DANGER

Hazard statements : May cause respiratory irritation. May intensify fire; oxidizer. Harmful if swallowed. Causes mild skin irritation. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take any precaution to avoid mixing with combustible or incompatible materials. Keep away from heat.

Response : If skin irritation occurs, seek medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Wear eye/face protection. Specific treatment: refer to Label or MSDS.

IMDG Code : 8 (5.1)/I

UN No. : 1873

IATA : 8 (5.1)

Disposal: The quantities greater than 10g should be dissolved in water and transferred to heavy metal waste drums for collection by specialist disposal company. Add bromine / iodine / inorganic peroxide / oxidants to be disposed to large amount of water and then make harmless by addition of acidic sodium thiosulphate solution

Hazard Pictogram(s) :



Replace Date 13-07-2020