

Summary Technical Data Sheet

Product Name: Chromic Acid 99.80%

CAS Number: 1333-82-0



Formula: CrO₃

Molecular weight: 99.99 g/mol.

Grade: Technical

Typical Properties

- Appearance: Dark red flakes
- Decomposition Temperature: 198°C
- Melting point: 197°C
- Odour: odourless
- Specific Gravity: 2.70 g/cm³
- Solubility @20°C in H₂O: 625 g/l
- Stability in air: very hygroscopic and deliquescent at humidity above 30%
- Highly oxidant
- Highly deliquescent flammable in contact with organic compounds
- Toxic



Product Specifications

Appearance	Dark Red Flakes
Properties	Specifications
Content (as CrO ₃)	≥ 99.98%
Sulphate	≤ 0.02%
Water Insoluble Substances	≤ 0.0050%
Sodium (as Na)	≤ 0.005%
Chloride (as Cl)	≤ 0.003%
Iron (as Fe)	≤ 30 ppm

Chromium trioxide (dichromic acid, chromic acid) is an inorganic compound with the formula CrO₃. It is the acidic anhydride of chromic acid although in the general market place the names are often interchangeable. It is frequently used in the electroplating industry.

Chromic Acid (Dichromic Acid, Chromium Trioxide) is most known for its use in the metal finishing (intermediate in chromium plating) industry. Other common uses are as a wood preservative, anodizing of aluminum, production of plastic products, ceramic glazes, ceramic glass and to clean laboratory glassware and magnetic recording tapes. It has also been used as a seal for phosphate coatings to iron and steel, and bright dipping of brass, and in the manufacturing of pigments for paint colour. In the past, it was used as a hexavalent passivate for conversion coating on zinc, and as acid cleaning of aluminum and magnesium, and organic synthesis.

Packaging: Metal drums; 50 kg

Transport Regulations: See our SDS.

The above information, while not guaranteed, reflects our analysis and believed to be accurate. It is the end user's responsibility, prior to use of the above mentioned product to determine the suitability of the product. Aqua Bond shall not be, directly or indirectly responsible for damages of any nature whatsoever resulting from the use or reliance upon the above information.