

Identification

Na₂Cr₂O₇·2H₂O
M = 298,00 g/mol
CAS [7789-12-0]
EC number: 234-190-3
Taric code: 2841 30 00

Synonyms

Sodium bichromate, Sodium pyrochromate

Applications

analytical chemistry, laboratory reagent, oxidizing agent (manufacture of dyes), starting material for synthesis of chromic acid and other chromates.

Specifications

assay (iodometric).....	99,5 - 100,5 %	aluminium (Al).....	max. 0,002 %
identity.....	passes test	calcium (Ca).....	max. 0,002 %
insoluble in water.....	max. 0,005 %	copper (Cu).....	max. 0,001 %
ammonium hydroxide precipitate.....	max. 0,005 %	iron (Fe).....	max. 0,002 %
chlorides (Cl).....	max. 0,002 %	lead (Pb).....	max. 0,002 %
sulfates (SO ₄).....	max. 0,01 %	magnesium (Mg).....	max. 0,005 %
		potassium (K).....	max. 0,01 %

Physical data

- Appearance: lumpy irregular crystals, dark orange
- Spec. Density: 2,52 g/cm³ (anhydrous substance)
- Bulk density: ~ 1200 kg/m³
- Solub. in water: (20 °C): 731,8 g/l
- Melting point: 356,7 °C (anhydrous substance)
- Boiling point: 400 °C (decomposes)
- pH(100 g/l H₂O, 20 °C) 3,5

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H272: May intensify fire; oxidiser.
H301: Toxic if swallowed.
H330: Fatal if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340: May cause genetic defects.
H350: May cause cancer.
H360FD: May damage fertility. May damage the unborn child.
H372: Causes damage to organs through prolonged or repeated exposure.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H312: Harmful in contact with skin.
H317: May cause an allergic skin reaction.


Precautionary Statements:

- P221: Take any precaution to avoid mixing with combustibles.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P320: Specific treatment is urgent (see on this label).
P370+P378: In case of fire: Use ... for extinction.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 6.1 T5 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S.(Sodium dichromate dihydrate)
- IMDG: 6.1 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Sodium dichromate dihydrate)
- IATA/ICAO: 6.1 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Sodium dichromate dihydrate)
- PAX: 619
- CAO: 619
- 10°C - 30°C