

Potassium dichromate, secondary standard for volumetric titrations,
Titrasure®**Identification**

$K_2Cr_2O_7$
M = 294,19 g/mol
CAS [7778-50-9]
EC number: 231-906-6
Taric code: 2841 50 00

Synonyms

Potassium bichromate, Potassium pyrochromate

Applications

oxidizing agent, synthesis of organic products, manufacture of dyes, painting.

Specifications

assay (on dried sample).....	min. 99,0 %	calcium (Ca).....	max. 0,003 %
insoluble in water.....	max. 0,005 %	iron (Fe).....	max. 0,001 %
chlorides (Cl).....	max. 0,001 %	sodium (Na).....	max. 0,02 %
sulfates (SO ₄).....	max. 0,005 %	loss on drying (105 °C).....	max. 0,05 %

Physical data

- Spec. Density: 2,69 g/cm³
- Bulk density: 1250 kg/m³
- Solub. in water: (20 °C): 130 g/l
- Melting point: 398 °C
- Boiling point: > 500 °C
- pH(100 g/l H₂O, 20 °C) 3,57

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.
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).
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 25 mg/kg
- WGK: 3
- Poison class CH (Swiss): 3

Transport/storage

- ADR: 6.1 T5 II • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Potassium dichromate)
- IMDG: 6.1 II • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Potassium dichromate)
- IATA/ICAO: 6.1 II • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Potassium dichromate)
- PAX: 613
- CAO: 615
- Store between 15°C and 25°C