

**Chromium(III) nitrate nonahydrate, EssentQ®****Identification**

Cr(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O  
M = 400,15 g/mol  
CAS [7789-02-8]  
EC number: 236-921-1  
Taric code: 2834 29 80

**Synonyms**

Chromic nitrate nonahydrate

**Applications**

for the synthesis of: catalyst (Cr); in the textile industry; corrosion inhibitor.

**Specifications**

assay (iodometric).....min. 97 %	sulfates (SO <sub>4</sub> ).....max. 0,05 %
pH (5 %, H <sub>2</sub> O)..... 2 - 3	ammonium (NH <sub>4</sub> ).....max. 0,01 %
chlorides (Cl).....max. 0,01 %	iron (Fe).....max. 0,05 %

**Physical data**

- Appearance: crystals, bright black
- Bulk density: ~ 710 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 810 g/l
- Melting point: 36 - 37 °C
- pH(50 g/l H<sub>2</sub>O, 20 °C) 2 - 3

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

H272: May intensify fire; oxidiser.  
H302: Harmful if swallowed.

**Precautionary Statements:**

P221: Take any precaution to avoid mixing with combustibles.  
P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
P220: Keep / Store away from clothing / combustible materials.  
P280: Wear protective gloves / protective clothing / eye protection / face protection.  
P370+P378: In case of fire: Use ... for extinction.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 5.1 O2 III • UN 2720 • CHROMIUM NITRATE
- IMDG: 5.1 III • UN 2720 • CHROMIUM NITRATE
- IATA/ICAO: 5.1 III • UN 2720 • CHROMIUM NITRATE
- PAX: 516
- CAO: 518
- 10°C - 30°C