

Manganese(IV) oxide, 90%, EssentQ®**Identification**

MnO₂
M = 86,94 g/mol
CAS [1313-13-9]
EC number: 215-202-6
Taric code:

Synonyms

Manganese dioxide, Pyrolusite, Black manganese oxide, Manganese superoxide

Applications

laboratory reagent, in building materials, oxidizing agent, electrolyte for batteries, manufacture of glass, painting (in porcelain industry), manufacture of dyes (in the textile industry), pigment.

Specifications

assay (permanganometric).....	approx . 90 %	sulfates (SO ₄).....	max. 0,1 %
insoluble in HCl	max. 0,05 %	silicium dioxide (SiO ₂).....	max. 3 %
chlorides (Cl).....	max. 0,05 %	iron (Fe).....	max. 1 %
		loss on drying (105 °C).....	max. 1 %

Physical data

- Spec. Density: 5,03 g/cm³
- Bulk density: ~ 1000 kg/m³
- Solub. in water: (20 °C): insoluble
- Melting point: 535 °C (decomposes)
- pH(200 g/l H₂O, 20 °C) 4,0 - 5,5

Safety - GHS

Signal Word: Warning

Hazard Statements:

- H302: Harmful if swallowed.
H332: Harmful if inhaled.
H373: May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 5.1 O2 II • UN 1479 • OXIDIZING SOLID, N.O.S. (Manganese(IV) oxide)
- IMDG: 5.1 II • UN 1479 • OXIDIZING SOLID, N.O.S. (Manganese(IV) oxide)
- IATA/ICAO: 5.1 II • UN 1479 • OXIDIZING SOLID, N.O.S. (Manganese(IV) oxide)
- PAX: 508
- CAO: 511
- 10°C - 30°C