

**Molybdenum(VI) oxide, EssentQ®****Identification**

MoO<sub>3</sub>  
M = 143,94 g/mol  
CAS [1313-27-5]  
EC number: 215-204-7  
Taric code: 2825 70 00

**Synonyms**

Molybdic acid anhydride, Molybdenum trioxide

**Applications**

analytical chemistry, laboratory reagent.

**Specifications**

assay (complexometric).....	min. 99 %	sulfates (SO <sub>4</sub> ).....	max. 0,01 %
insoluble in NH <sub>4</sub> OH.....	max. 0,05 %	ammonium (NH <sub>4</sub> ).....	max. 0,01 %
chlorides (Cl).....	max. 0,005 %	copper (Cu).....	max. 0,002 %
phosphates, arseniates,		iron (Fe).....	max. 0,002 %
silicates (as PO <sub>4</sub> ).....	max. 0,002 %	lead (Pb).....	max. 0,002 %
		nickel (Ni).....	max. 0,002 %

**Physical data**

- Spec. Density: 4,50 g/cm<sup>3</sup>
- Bulk density: ~ 1200 kg/m<sup>3</sup>
- Solub. in water: (20 °C): ~ 0,5 g/l
- Melting point: 795 °C
- Boiling point: 1155 °C

**Safety - GHS**

**Signal Word:** Warning

**Hazard Statements:**

- H351: Suspected of causing cancer.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

**Precautionary Statements:**

- P261: Avoid breathing dust / fume / gas / mist / vapours / spray.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321: Specific treatment (see on this label).  
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. (Molybdenum(VI) oxide)
- IMDG: 6.1 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Molybdenum(VI) oxide)
- IATA/ICAO: 6.1 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Molybdenum(VI) oxide)
- PAX: 619
- CAO: 619
- 10°C - 30°C