

**Lead(II) oxide, for analysis, ExpertQ®****Identification**

PbO  
M = 223,19 g/mol  
CAS [1317-36-8]  
EC number: 215-267-0  
Taric code: 2824 10 00

**Synonyms**

Litharge

**Applications**

laboratory reagent, in building materials, in the ceramics industry, painting (in porcelain industry, in the ceramics industry), pigment (in the rubber industry).

**Specifications**

assay (complexometric).....	min. 99 %	copper (Cu).....	max. 0,001 %
insoluble in diluted CH <sub>3</sub> COOH.....	max. 0,05 %	iron (Fe).....	max. 0,002 %
total nitrogen (as N).....	max. 0,001 %	silver (Ag).....	max. 5 ppm
chlorides (Cl).....	max. 0,005 %	non precipitable with H <sub>2</sub> S (as SO <sub>4</sub> ).....	max. 0,3 %
bismuth (Bi).....	max. 0,005 %	loss on calcination (700 °C).....	max. 0,2 %

**Physical data**

- Appearance: floury powder, orange
- Spec. Density: 9,6 g/cm<sup>3</sup>
- Bulk density: ~ 3500 - 3700 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 0,017 g/l
- Melting point: 890 °C
- Boiling point: 1470 °C
- pH(100 g/l H<sub>2</sub>O, 20 °C) 8 - 9

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H360Df: May damage the unborn child. Suspected of damaging fertility.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H302: Harmful if swallowed.  
H332: Harmful if inhaled.  
EUH201: Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.  
P280: Wear protective gloves / protective clothing / eye protection / face protection.  
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.  
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 2291 • LEAD COMPOUND, SOLUBLE, N.O.S.(Lead(II) oxide)
- IMDG: 6.1 III • UN 2291 • LEAD COMPOUND, SOLUBLE, N.O.S.(Lead(II) oxide)
- IATA/ICAO: 6.1 III • UN 2291 • LEAD COMPOUND, SOLUBLE, N.O.S.(Lead(II) oxide)
- PAX: 619
- CAO: 619
- 15°C - 25°C