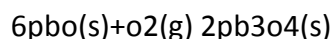


## Answer on Question #42795, Chemistry, Other

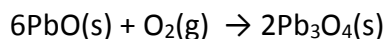
### Question:



### Answer:

**Lead(II,IV) oxide (Pb<sub>3</sub>O<sub>4</sub>)**, also called **minium**, **red lead** or **triplumbic tetroxide**, is a bright red or orange crystalline or amorphous pigment. Chemically, red lead is Pb<sub>3</sub>O<sub>4</sub>, or 2 PbO·PbO<sub>2</sub>. Lead(II,IV) oxide is used in the manufacture of batteries, lead glass and rust-proof primer paints.

Lead(II,IV) oxide is prepared by calcination of lead(II) oxide (also called litharge) in air at about 450 to 480 °C:



The resulting material is contaminated with lead(II) oxide (PbO). If a pure compound is desired, PbO can be removed by a potassium hydroxide solution:

