

Task:

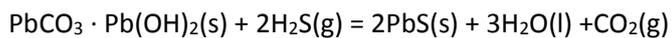
Lead pigments were used in water colour painting which turned black after prolonged to an air pollutant the original color was restored by using H₂O₂ which pollutant turned the painting black?

Answer:

The chemical formula for Lead pigments is PbCO₃ · Pb(OH)₂.

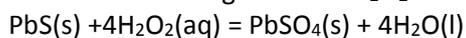
There is always some H₂S in air. Because of reaction between H₂S and lead pigments the color turns black.

The chemical equation for this reaction is



PbS is black.

To restore the original color H₂O₂ is used according to the reaction



PbSO₄ is white.

The pollutant that turned the painting black is H₂S