



>>Entry Name: Chromium lead oxide (CrPb<sub>2</sub>O<sub>5</sub>)

Synonym(s): Lead(II) chromate(VI) oxide (Pb<sub>2</sub>(CrO<sub>4</sub>)O). Basic lead chromate. Red lead chromate. Chrome red. Persian red

CAS Registry Number: 18454-12-1

Pb(CrO<sub>4</sub>).PbO

Molecular Formula: CrO<sub>5</sub>Pb<sub>2</sub>

Molecular Weight: 546.393

Accurate Mass: 547.868338

Percentage Composition: Cr 9.52%; O 14.64%; Pb 75.84%

Use/Importance: Anticorrosive pigment; used in \*CI Pigment Orange 21\*, \*CI Pigment Red 103\* and \*CI Pigment Green 15\*

Physical Description: Red cryst.

Solubility: Insol. H<sub>2</sub>O; sol. acid, alkali

#### References:

Ardoullie, R., *Chim. Peint.*, 1961, **24**, 209, (*synth*)

*U.S. Pat.*, 1964, 3 118 780; *CA*, **60**, 10925, (*synth*)

Polinsky, K., *Zh. Prikl. Khim. (Leningrad)*, 1966, **39**, 49

*Colour Index*, 1971, **4**, 4677

Toda, K. *et al.*, *J. Appl. Phys.*, 1984, **55**, 210; 1985, **57**, 5325

Mentzen, B. *et al.*, *Mater. Res. Bull.*, 1984, **19**, 549, (*cryst struct*)

Pipel, P.P. *et al.*, *Zh. Neorg. Khim.*, 1984, **29**, 2240, (*synth*)

Roncaglia, D.I. *et al.*, *J. Mater. Sci. Lett.*, 1985, **4**, 1427, (*ir*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, LCS000