>>**Entry Name: Zinc dichromate**
Synonym(s): Zinc chromate ($ZnCr_2O_7$)

CAS Registry Number: 14018-95-2
$ZnCr_2O_7$

Molecular Formula: Cr_2O_7Zn
Molecular Weight: 281.378
Accurate Mass: 279.774568
Percentage Composition: Cr 36.96%; O 39.80%; Zn 23.24%
Source/Synthesis: Synth. from ZnO and CrO_3 in H_2O
Use/Importance: Component of pigments; anti-corrosion coatings for steels; in acrylate and other polymeric coatings; catalyses oxidation of alcohols and ethers (to esters). Catalyst for dehydrogenation of methyl stearate: catalyst for reforming CH_4 in H_2 manuf.
Physical Description: Orange red cryst. + $3H_2O$ (H_2O)
Solubility: Sol. H_2O

References:

Gröger, A.*, Z. Anorg. Allg. Chem.*, 1910, **66**, 7, *(synth)*
Woodward, A.E. *et al.*, *J. Phys. Chem.*, 1956, **60**, 939, *(phase diagram)*
Gmelin Handbook Inorg. Chem., *Syst. No.* 52, 1962, 860
Firouzabadi, H. *et al.*, *Synthesis*, 1986, 285, *(synth, uses)*