



>>Entry Name: Aluminium cobalt(II) oxide (Al₂CoO₄)

CAS Registry Number: 1333-88-6

Extra CAS Registry Numbers(s): 12672-27-4

CoAl₂O₄

Molecular Formula: Al₂CoO₄

Molecular Weight: 176.894

Accurate Mass: 176.875936

Percentage Composition: Al 30.51%; Co 33.32%; O 36.18%

General Statement: A spinel

Source/Synthesis: Synth. from CoO and Al₂O₃ at 1200°

Use/Importance: Oxidation and desulfurisation catalyst. Pigment in photography and with ZnS phosphors. Commercially available

References:

Tarte, P., *Spectrochim. Acta A*, 1967, **23**, 2127, (*ir*)

Navrotsky, A. *et al.*, *J. Inorg. Nucl. Chem.*, 1968, **30**, 479, (*synth, props*)

Dutt, B.V. *et al.*, *J. Am. Ceram. Soc.*, 1975, **58**, 462, (*thermodyn*)

Otero, A.C. *et al.*, *CA*, 1981, **94**, 94058, (*cryst struct*)