



>>Entry Name: Nickel(III) oxide (Ni₂O₃)

CAS Registry Number: 1314-06-3

Related CAS Registry Numbers(s): 12534-05-3

Ni₂O₃

Molecular Formula: Ni₂O₃

Molecular Weight: 165.378

Accurate Mass: 163.855437

Percentage Composition: Ni 70.98%; O 29.02%

Use/Importance: Used in organic oxidations

Physical Description: Black solid

Other Data: Oxidises HCl to form Cl₂

References:

Clark, G.L. *et al.*, *J.A.C.S.*, 1925, **47**, 2661, (*synth*)

Bogatskii, D.P., *Zh. Obshch. Khim.*, 1951, **21**, 3, (*synth from nitrate*)

Zinov'ev, A.A. *et al.*, *Zh. Neorg. Khim.*, 1959, **4**, 2009; *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1959, **4**, 910, (*synth from perchlorate*)

Gmelin Handbook Inorg. Chem., Syst. No. 57, 1966, **B2**, 430; 482, (*rev*)

George, M.V. *et al.*, *Chem. Rev.*, 1975, **75**, 491, (*rev*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, NDH500