



>>Entry Name: Iridium(IV) oxide (IrO₂), 8Cl

Synonym(s): Iridium dioxide

CAS Registry Number: 12030-49-8

Related CAS Registry Numbers(s): 30980-84-8

IrO₂

Molecular Formula: IrO₂

Molecular Weight: 224.219

Accurate Mass: 224.952747

Percentage Composition: Ir 85.73%; O 14.27%

Use/Importance: Potential use as electrochromic display electrode; also used in electrochromic light modulators as secondary electrochromophore

Physical Description: Black cryst.

Aldrich: 20623-7

References:

- Schäfer, H. *et al.*, *Z. Anorg. Allg. Chem.*, 1960, **304**, 249, (*synth*)
Bell, W.E. *et al.*, *J. Phys. Chem.*, 1966, **70**, 2048, (*synth*)
Butler, S.R. *et al.*, *Mater. Res. Bull.*, 1971, **6**, 81, (*synth, struct*)
Dautremont-Smith, W.C. *et al.*, *Solid State Ionics*, 1981, **2**, 13, (*electrochem, electrochromism, device fabrication, use*)
Dautremont-Smith, W.C., *Displays*, 1982, **3**, 67, (*electrochem, electrochromism, device fabrication, use*)
Kang, K.S. *et al.*, *J. Electrochem. Soc.*, 1983, **130**, 766, (*electrochem, electrochromism, devices, use*)
Sato, Y. *et al.*, *J. Electrochem. Soc.*, 1987, **134**, 570, (*electrochem, electrochromism, devices, use*)
Cogan, S.F. *et al.*, *Sol. Energy Mater.*, 1987, **16**, 371, (*electrochromism, devices, use*)
Rauh, R.D. *et al.*, *Solid State Ionics*, 1988, **28-30**, 1707, (*electrochem, electrochromism, use*)