



>>Entry Name: Rhenium sulfide (ReS₂), 10Cl

Synonym(s): Rhenium(IV) disulfide

CAS Registry Number: 12038-63-0

ReS₂

Molecular Formula: ReS₂

Molecular Weight: 250.339

Accurate Mass: 250.899884

state CdCl₂ struct.

Source/Synthesis: Synth. from Re₂S₇ at 750°, or from the elements, or by action of H₂S on aq. ReCl₆²⁽⁻⁾

Physical Description: Soft black solid

Solubility: Sol. oxidising acids

Other Data: Sl. paramagnetic

References:

Arutyunyan, L.A. *et al.*, *Dokl. Akad. Nauk Arm. SSR*, 1971, **53**, 95; *CA*, **77**, 10769m, (*synth, powder struct*)

Wildervanck, J.C. *et al.*, *J. Less-Common Met.*, 1971, **24**, 73, (*synth, cryst struct*)

Compr. Inorg. Chem., Pergamon, Oxford, 1973, **3**, 949, (*rev, bibl*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, 1619, (*synth*)

Marzik, J.V. *et al.*, *J. Solid State Chem.*, 1984, **51**, 170, (*synth*)

Murray, H.H. *et al.*, *Inorg. Chem.*, 1994, **33**, 4418, (*cryst struct*)