



>>Entry Name: Cobalt(II) hydroxide (Co(OH)₂), 8Cl

Synonym(s): Cobaltous hydroxide

CAS Registry Number: 21041-93-0

Related CAS Registry Numbers(s): 12672-51-4

Co(OH)₂

Molecular Formula: CoH₂O₂

Molecular Weight: 92.948

Accurate Mass: 92.938678

Percentage Composition: Co 63.40%; H 2.17%; O 34.43%

General Statement: Has the brucite struct. like Mg(OH)₂

Physical Description: Pink cryst.; a less stable blue-green form is also known

Solubility: Amphoteric, sol. boiling conc. alkali hydroxide → a blue-violet colour

Aldrich: 34244-0

>>Derivative: Monohydrate

CAS Registry Number: 35340-84-2

Physical Description: Blue solid

Other Data: Dec. to CoO at 136°

References:

Remy, H., *Treatise Inorg. Chem.*, Elsevier, 1956, **2**, 293, (*synth, props, struct*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **3**, 1665, (*synth*)

Tsyganenko, A.A., *Zh. Strukt. Khim.*, 1975, **16**, 572, (*ir*)

Mehandjiev, D. *et al.*, *Thermochim. Acta*, 1980, **37**, 145, (*thermal dec*)

Bridley, G.W. *et al.*, *Phys. Chem. Miner.*, 1984, **10**, 187, (*cryst struct, ir*)

Wells, A.F., *Structural Inorg. Chem.*, 5th Ed., OUP, 1984, 631, (*struct*)

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