



>>Entry Name: Nickel(II) carbonate (NiCO₃)

ENTRY UNDER REVIEW

Synonym(s): Nickel carbonate

CAS Registry Number: 3333-67-3

Related CAS Registry Numbers(s): 1319-49-9 29863-10-3
NiCO₃

Molecular Formula: CNiO₃

Molecular Weight: 118.699

Accurate Mass: 117.920091

Percentage Composition: C 10.12%; Ni 49.44%; O 40.44%

Source/Synthesis: Synth. from Nickel(II) chloride (NiCl₂) JCB87-Q + CaCO₃ at 150° in sealed tube

Physical Description: Light green solid

>>Derivative: Hexahydrate

Synonym(s): Hellyerite

Source/Synthesis: Synth. from Hexaaquanickel(II)(2+) JWL44-J + NaHCO₃ or obt. as mineral from old Lord Brassey nickel mine, Tasmania

Physical Description: Pale green or blue fine vitreous cryst.

>>Derivative: Basic carbonate

Synonym(s): Nickel carbonate hydroxide tetrahydrate. Basic nickel carbonate. **Zaratite**

CAS Registry Number: 12244-51-8

Source/Synthesis: Synth. from Hexaaquanickel(II)(2+) JWL44-J + Na₂CO₃

Use/Importance: Commercially available; used to synth. other Ni compds. by reaction with acids; used in ceramic pigments. Mineral found in Galicia, Spain

Physical Description: Pale green cryst.

Other Data: Approx. formula Ni₅(OH)₆(CO₃)₂·4H₂O. Also formulated as 2NiCO₃·3Ni(OH)₂·4H₂O. Other undefined basic nickel carbonates known

Aldrich: 33977-6

References:

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