



>>Entry Name: Nickel(II) nitrate (Ni(NO₃)₂)

CAS Registry Number: 13138-45-9

Extra CAS Registry Numbers(s): 13478-00-7
Ni(NO₃)₂

Molecular Formula: N₂NiO₆

Molecular Weight: 182.7

Accurate Mass: 181.910984

Percentage Composition: N 15.33%; Ni 32.12%; O 52.54%

Source/Synthesis: Synth. by dehydration of the hydrate with N₂O₄ in fuming HNO₃ or by the liq. phase reaction of N₂O₄ with Ni(CO)₄

Physical Description: Pale green solid

>>Derivative: Dihydrate

>>Derivative: Tetrahydrate

>>Derivative: Hexahydrate

Synonym(s): Hexaaquanickel(2+) dinitrate

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⁽⁻⁾ ions joined together by a network by a network of H bonds

Physical Description: Green deliquescent cryst.

Melting Point: Mp 56.7°

References:

Sidgwick, N.V., *The Chemical Elements and their Compds.*, O.U.P., 1950, **2**, 1436

Addison, C.C. *et al.*, *J.C.S.(A)*, 1966, 1524-1528, (*ir, uv*)

Bigoli, F. *et al.*, *Acta Cryst. B*, 1971, **27**, 1427-1434, (*hexahydrate, cryst struct*)

Compr. Inorg. Chem., Pergamon, 1973, **3**, 1130-1131, (*rev*)

Kirk-Othmer Encycl. Chem. Technol., 4th edn., Wiley, 1991, **17**, 21, (*rev*)