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>>Entry Name: Nickel sulfamate

Synonym(s): Sulfamic acid nickel(2+) salt (2:1), 9CI

CAS Registry Number: 13770-89-3

Extra CAS Registry Numbers(s): 124594-15-6

$(\text{H}_2\text{NSO}_3)_2\text{Ni}$

Molecular Formula:  $\text{H}_4\text{N}_2\text{NiO}_6\text{S}_2$

Molecular Weight: 250.863

Accurate Mass: 249.886424

Percentage Composition: H 1.61%; N 11.17%; Ni 23.40%; O 38.27%; S 25.56%

Source/Synthesis: Synth. from  $\text{H}_2\text{NSO}_3\text{H} + \text{NiCO}_3$  or  $\text{Ni}(\text{OH})_2$

Use/Importance: Used in electroplating baths

Physical Description: Cryst. + 4  $\text{H}_2\text{O}$

Melting Point: Mp 125°

References:

*Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **2**, 1303D, (*ir*)

Overhauser, B.F. *et al.*, *CA*, 1947, **41**, 1944f, (*synth*)

Odehnal, M. *et al.*, *Chem. Listy*, 1955, **49**, 1571-1573, (*synth*)

Bicelli, L.P. *et al.*, *Ann. Chim. (Rome)*, 1957, 1380-1387, (*ir*)