



Other Data: Dec. on heating

>>**Derivative:** Di-NH₄ salt

Synonym(s): Ammonium selenate

CAS Registry Number: 7783-21-3

Molecular Formula: H₈N₂O₄Se

Molecular Weight: 179.034

Accurate Mass: 179.964928

Percentage Composition: H 4.50%; N 15.65%; O 35.75%; Se 44.10%

Physical Description: Colourless cryst.

Solubility: V. sol. H₂O

Other Data: Dec. on heating

>>**Derivative:** Bis-Me₄N salt

Molecular Formula: C₈H₂₄N₂O₄Se

Molecular Weight: 291.249

Accurate Mass: 292.090128

Percentage Composition: C 32.99%; H 8.31%; N 9.62%; O 21.97%; Se 27.11%

Source/Synthesis: Synth. from the di-Na salt (aq.) and excess of a Me₄N⁽⁺⁾-loaded cation exchange resin

Physical Description: V. hygroscopic cryst.

References:

Inorg. Synth., 1950, **3**, 137; 1980, **20**, 36-38, (*synth*)

Walrafen, G.E., *J. Chem. Phys.*, 1963, **39**, 1479, (*ir*)

Paetzald, R. *et al.*, *Z. Anorg. Allg. Chem.*, 1966, **343**, 70, (*synth, Raman*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **1**, 425, (*synth*)

Gmelin Handbook Inorg. Chem., Syst. No. 10, Suppl. Vol., 1981, **B1**, 257, (*rev, bibl*)

Zuniga, F.J. *et al.*, *Acta Cryst. C*, 1991, **47**, 638, (*cryst struct, Cs salt*)

Malchus, M. *et al.*, *Z. Naturforsch., B*, 1998, **53**, 704-710, (*synth, cryst struct, ir, Raman, tga, dta, bis-Me₄N salt*)

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