



>>Entry Name: Ammonium phosphonate ((NH₄)₂(HPO₃))

Synonym(s): Diammonium phosphonate, 9Cl. Diammonium phosphite. Diammonium hydridotrioxophosphate(III)

(NH₄)₂(HPO₃)

Molecular Formula: H₉N₂O₃P

Molecular Weight: 116.056

Accurate Mass: 116.03508

Percentage Composition: H 7.82%; N 24.14%; O 41.36%; P 26.69%

>>Derivative: Monohydrate

CAS Registry Number: 51503-61-8

Source/Synthesis: Synth. from H₃PO₃ + [NH₄]OH

Physical Description: Needles (H₂O, by slow evap)

Other Data: Monoclinic. Interatomic distances: P-H 134.2, P-O 150.9-151.9 pm

References:

Rafiq, M. *et al.*, *Z. Anorg. Allg. Chem.*, 1982, **484**, 187, (*synth, cryst struct*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ANS250