## MS35-P23 | Structural and vibrational study of New 2-ethylanilinium phosphite $(C_8H_{12}N)H_2PO_3$

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Chemical preparation, crystal structure and vibrational study are reported for a new 2-ethylanilinium phosphite  $(C_8H_{12}N)H_2PO_3$ . This organic cationic phosphate was synthesized by the action of phosphoric acid on an aqueous solution of Dimethylamine,  $(C_8H_{12}N)H_2PO_3$  crystallizes in the triclinic system with centric space group P-1. Its unit-cell dimensions are a = 4.6042 (2) Å, b = 10.3863 (4) Å, c = 10.7848 (5) Å,  $\alpha$ = 90.115 (3)°,  $\beta$  = 97.878 (3)°,  $\gamma$  = 98.462 (3)°, Z = 2 and Z and Z = 0.0495 for 1989 reflections satisfying criterion Z = 0.0495 for 1989 reflections satisfying criterion Z = 0.0495 for 1989

The vibrational study using IR absorption spectroscopy shows the presence of bands characterized by the vibrations of the  $H_2PO_3^-$  ion in the structure.