

## Spectroscopic Analysis and Structural Identification of Acid Ion Entrapped Clathrate Hydrate

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Spectroscopic analysis and structural identification of acid ion entrapped clathrate hydrate were carried out for hexafluorophosphoric acid. Raman spectroscopy, Infra-red spectroscopy and x-ray diffraction measurement were used for this experiment. We wish to report an ion type clathrate with gas on acid guest, and the area ratio of ion and gas were changed with various concentrations between 0.7 mol% and 10.0 mol %.