



## FTIR and Raman Proficiency Program

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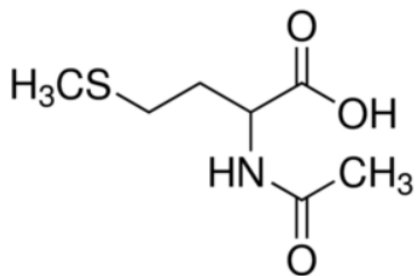
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December 20, 2017

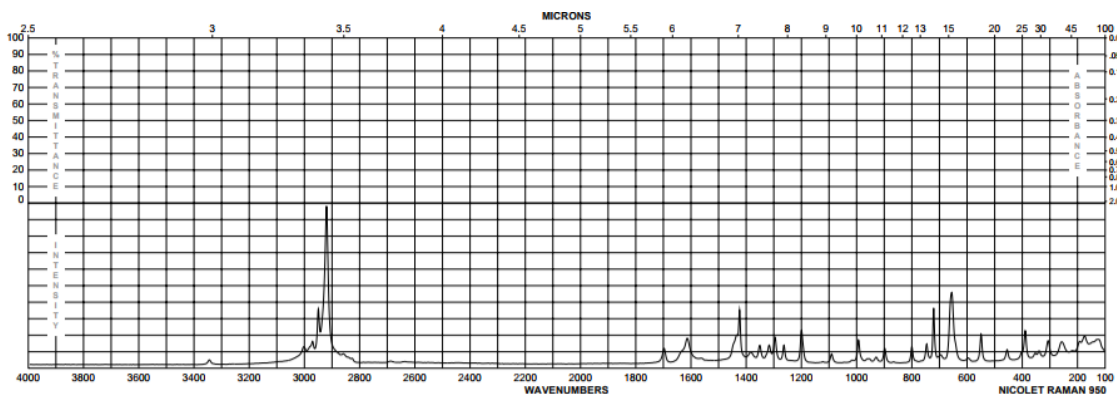
### Results for October 2017 RAMAN Proficiency Testing Event

Dear Participant:

In the July 2017 Raman challenge three unknown powders were sent. All three were one component samples. **RAM17-7** was N-Acetyl-DL-methionine. CAS # 1115-47-5. This is a white powder that is used in laboratories as an equivalent to L-methionine, which is one of the 9 essential amino acids for humans.



A copy of the spectrum obtained from a Nicolet Raman 950 is shown below. The chemical is in the Smiths Raman Common Chemicals library. The majority of participants correctly identified this.



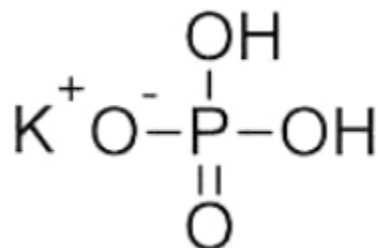


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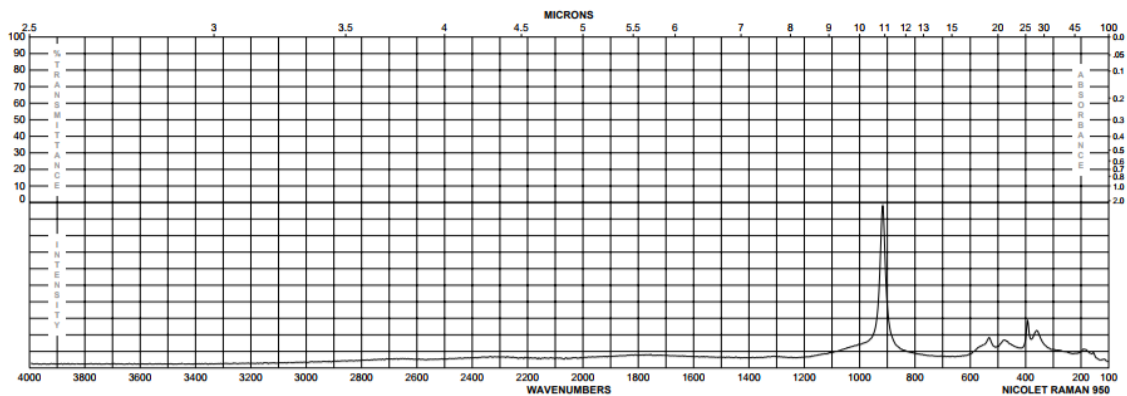
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**RAM17-8** was potassium phosphate monobasic, CAS # 7778-77-0. This is a white crystalline powder. It is used as a fertilizer, food additive, and fungicide.



This compound is in the Smiths Raman Common Chemicals library. A copy of the spectrum obtained from a Nicolet Raman 950 is shown below. The chemical is in the Smiths Raman Common Chemicals library. The majority of participants correctly identified this.



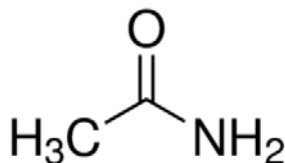


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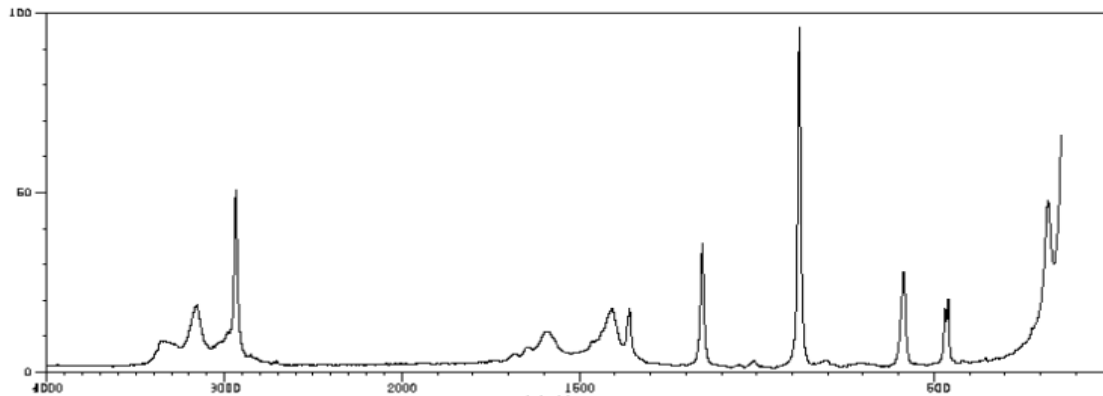
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**RAM17-9** was acetamide, CAS # 60-35-5. This powder is the simplest amide, and is used as a plasticizer and industrial solvent.



This compound is found in the Smiths Raman Common Chemicals library. The majority of participants correctly identified this.



Individual results can be seen by visiting [NPHL.org](http://NPHL.org) and logging into the FTIR/Raman participant portal. Individual result reports are no longer sent out. As always, please contact us with any questions you might have. This report will be posted on the FTIR/Raman page on [nphl.org](http://nphl.org).

Sincerely,

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