

## How does ammonium fluoride affect HPLC and LCMS data if using Aqueous Normal Phase ANP methods - FAQ

## Ammonium fluoride is beneficial in several ways in an Aqueous Normal Phase ANP chromatographic method:

- As a buffer (i.e. pH control)
- Improvement of peak shape.
- Improvement of sensitivity in MS for certain compounds.

Using ammonium fluoride as a mobile phase <u>additive</u> is suggested for LCMS when using Aqueous Normal Phase HPLC methods. For further reading, please refer to the following third-party journal article reference:

J. Pesek, M. Matyska, "Ammonium fluoride as a mobile phase <u>additive</u> in <u>aqueous normal phase</u> chromatography," J. Chromatogr. A. 1401, 2015, 69–74.

**NOTE:** care should be taken when using ammonium fluoride because it is corrosive to glass (Teflon bottles are preferred) and using a concentration in excess of 1 mM may permanently damage the column. Cogent TYPE- $C^{\text{IM}}$  Silica columns last much longer than ordinary columns but ammonium fluoride may somewhat decrease the column lifetime.



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