

How Does Ammonium Fluoride Affect HPLC and LCMS Data if using Aqueous Normal Phase ANP Methods - HPLC Primer

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

- • As a <u>buffer</u> (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</u> <u>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^{IM} Silica columns last much longer than ordinary columns but ammonium fluoride may somewhat decrease the column lifetime.



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