

## What is the purpose of using isopropanol IPA as part of the mobile phase solvent in ANP methods – FAQ

Some of our Cogent TYPE-C HPLC column application notes that feature **Aqueous Normal Phase ANP** use 50% isopropanol (*IPA*) as part of the aqueous component of the mobile phase. The main reason for this use is to help keep the column free of undesired adsorbed contaminants from a sample or sample matrix.

Contaminants can change the retention behavior of your **analyte** in any HPLC method and can also slowly elute off the column as carryover peaks in subsequent runs or as baseline noise and drift. We have found IPA (*or methanol can be used*) to be good at washing these contaminants off the column during the final part of an ANP gradient run. When performing HPLC or LCMS, adding IPA to the A (*aqueous*) solvent component will have little effect on the chromatography compared to using only aqueous-containing solvents, so it is something you should consider adding in the method before it has been fully developed.



**MicroSolv Technology Corporation**

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: [customers@mtc-usa.com](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)