

CHIRAL ART

Chiral method optimization of ionic compounds utilizing immobilized type column in reversed phase mode

~ Influence of pH on retention behavior ~



(F140718AE)



- Immobilized type CHIRAL ART columns can be used with various solvents that are commonly used for HPLC analysis.
- They can be used in both normal phase mode and reversed phase mode as they are compatible with non-aqueous and aqueous solvents (*).
- Reversed phase mode will be effective in case where a sample is hydrophilic and has limited solubility in organic solvent (e. g. Hexane)
- In this technical data sheet, we will introduce influence of pH of mobile phase on retention behavior of ionic compounds. We also introduce several example of chiral separation on reversed phase mode.

^(*) We recommend that the column is dedicated to either phase. Frequent change of separation mode may result in short column lifetime.



Influence of pH on retention behavior

6

10

12

14 min





Influence of pH on retention behavior



Tips for optimizing chiral separation method of ionic compounds on reversed phase mode



- Mobile phase
 - > Optimal pH that ionization of analyte is suppressed is recommended.
 - (Retention will be extended and possibility of greater resolution is expected.)
- ≻Column
 - > Immobilized type CHIRAL ART columns are the best option.

