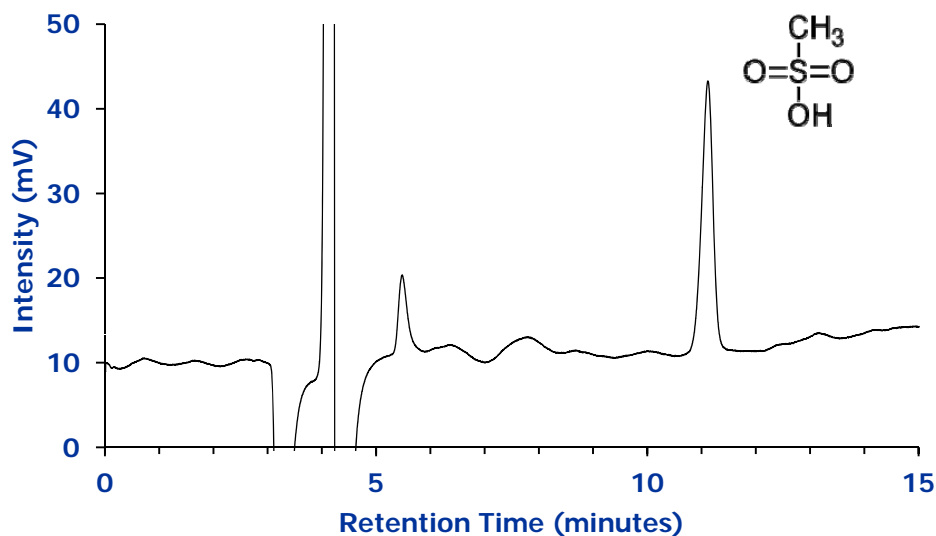


# Separation of Methanesulfonic Acid

## ZIC®-HILIC

### Chromatographic Conditions

|                     |  |              |
|---------------------|--|--------------|
| Column:             | SeQuant® ZIC®-HILIC 150 X 4.6 mm, 3.5 µM, 100 A  | 1.50444.0001 |
| Injection:          | 20 µL  |              |
| Detection:          | Shimadzu Prominence, RI (Cell temp: 40°C, Range: 1.0)  |              |
| Cell:               | 9 µl   |              |
| Flow Rate:          | 0.5 mL/min   |              |
| Mobile Phase (v/v): | Buffer: 100 mM ammonium acetate, pH adjusted to 4.5 with acetic acid<br>Mix acetonitrile and buffer by volume 80:20. |              |
| Temperature:        | 40 °C  |              |
| Diluent:            | Mobile phase   |              |
| Sample:             | 200 ppm of Methanesulfonic Acid in Mobile phase  |              |
| Pressure Drop:      | 37 Bar (537 psi)   |              |



### Chromatographic Data

| No. | Compound             | Time | Tailing Factor | Retention Factor (k') | Theoretical Plates |
|-----|----------------------|------|----------------|-----------------------|--------------------|
| 1   | Methanesulfonic Acid | 11.1 | 0.91           | 2.5                   | 12917              |