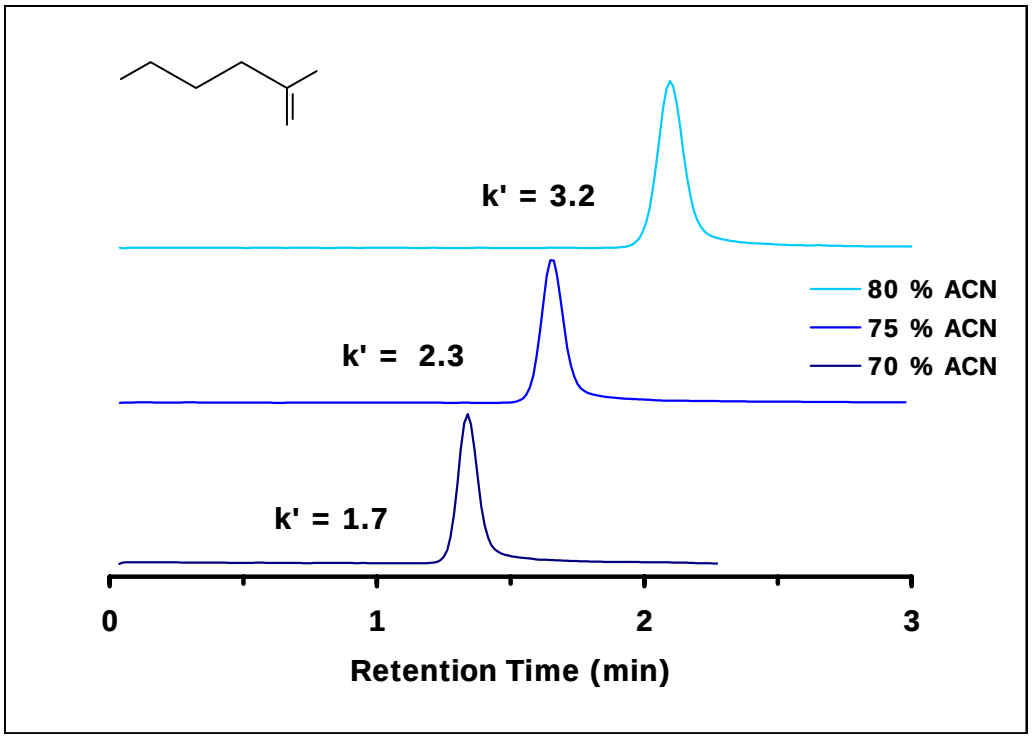
ZIC®-HILIC Separation of gamma-hydroxybutyric acid

Chromatographic Conditions

Column: ZIC®-HILIC, PEEK 50 x 2.1 mm, 3.5 µm, 200 Å (P/N 2702-052)
Injection: 2 µL in mobile phase
Detection: LC-ESI MS negative mode (50 V fragmentor; 2.5 kV cone voltage)
SIM ion: 103.2
Pressure Drop: 4.6, 4.4, and 3.8 MPa (662, 634, and 547 psi)
Flow Rate: 0.2 mL/min
Mobile Phase (v/v): Acetonitrile ratio differs among experiments (indicated below)
Ammonium Formate 100 mM; pH 6.3



Chromatographic Data

No.	Compound	Eluent composition	Time (min)	Retention factor
	t_0 (void volume)		0.5	-
1	gamma-hydroxybutyric acid	70 % ACN	1.34	1.7
1	gamma-hydroxybutyric acid	75 % ACN	1.65	2.3
1	gamma-hydroxybutyric acid	80 % ACN	2.10	3.2

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