



acetophenone n-methylaniline retention

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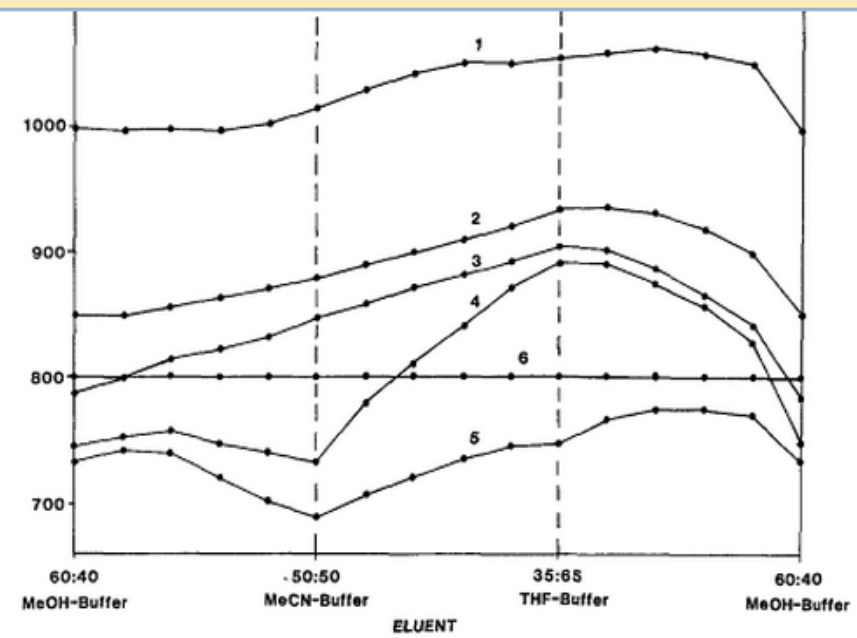


Fig. 3.16. Variation of retention indices of column tests compounds on the alkyl aryl ketone scale with composition of ternary eluent. (1) Toluene, (2) nitrobenzene, (3) N-methylaniline, (4) p-cresol, (5) 2-phenylethanol, (6) acetophenone (I defined as 800). Reproduced with permission [165].

modifiers in the eluent but few studies have been examined the influence of the modifier or carried out systematic changes in the eluent composition. In the early work on retention index scales, Baker and Ma [106] and Smith [83,109] described the variation of retention indices across wide composition ranges. A more detailed comparison was also presented as part of the retention prediction studies in Chapter 1. Some work has been carried out during robustness studies to determine the susceptibility of the retention indices to small changes in composition and these are described in the next chapter.

When Smith [139] examine the effect of eluents and stationary phases on the retention indices of the column test compounds, he found that the different solvents were a much more significant cause of differences in the indices than were differences in the stationary