What is meant by "capacity factor" in chromatography? - WKB48189

ENVIRONMENT

• Column
• Capacity factor
• k'
• k prime
• retention

ANSWER

Capacity factor defines interaction with the sorbent or retention in chromatography. The earliest eluting peak of interest should have a k’ of 1 or better. The ideal is 2 or better.

ADDITIONAL INFORMATION

For additional information see Wat038216 - HPLC COL THEORY TECH/PRACTICE BOOK, by Uwe D. Neue.

For practical examples, see John Dolan LC-GC articles:

http://www.chromatographyonline.com/retention-time-drift-case-study-0

http://www.chromatographyonline.com/count-cost-part-ii-increasing-resolution-increasing-retention?pageID=1