

Table 3.11 Eluotropic series.

	Silica	Alumina
Least polar	Cyclohexane Pentane Toluene Diethyl ether Ethyl acetate Acetic acid	Pentane Cyclohexane Toluene Diethyl ether Ethyl acetate Methanol Acetic acid
Most polar	Methanol	

Separations

Table 7.5. Standard Elution Order of Organic Compounds*

Alkanes
Alkenes
Aromatics
Ethers
Esters
Ketones
Aldehydes
Alcohols
Amides (having at least one N—H bond)
Diols
Carboxylic acids
Polyfunctional compounds

* Listed in order of decreasing elution speed; exceptions to this order occur as a result of large differences in other properties, such as molecular weight. The elution order would essentially be reversed if reverse-phase adsorbent (see footnote, Table 7.4) is used.