

Chromatography Methods

Chemistry

The main techniques, and what separates in each.

Technique against phase and use.

Technique	Mobile phase	Suits
Paper / TLC	Solvent	Quick qualitative work
Column	Solvent	Preparative separation
GC	Inert gas	Volatile compounds
HPLC	Pressurised liquid	Non-volatile, thermally fragile
Ion exchange	Buffer	Charged species
Size exclusion	Solvent	Separating by molecular size

GC-MS combines separation with identification: retention time identifies the peak, and the mass spectrum confirms it.