

9.2.7.5 Terms Related to the Chromatographic Process

Isobaric separation

Chromatographic separation carried out using constant inlet and outlet pressure conditions.

Isopycnic separation

Chromatographic separations carried out using constant density conditions. The temperature and pressure may be altered during the run (originally the term *isoconfertic separation* was used but this term is not recommended).

Programmed elution

A procedure is which the conditions of the separation are changed in a programmed manner. Unlike gas or liquid chromatography both the pressure and temperature can be programmed.

The term *gradient elution* should be restricted to changes in composition of the mobile phase with time (see 9.2.1.6).

Density-programmed elution

A separation carried out using a pressure and/or temperature programme so that the density of the mobile phase changes with time in a pre-determined manner during the separation.

Pressure-programmed elution

A separation carried out using a programmed increasing pressure with time.

Pressure/temperature-programmed elution

A separation carried out using conditions where the pressure and temperature are programmed simultaneously. The temperature may be programmed to increase or decrease.