

pressure gradient correction factor (in gas chromatography)

A factor that corrects for the compressibility of the *carrier gas*. The values of the measured quantities obtained after multiplication by the factor j are independent of the pressure drop in the column. If p_i , p_o are respectively the pressures of the carrier gas at the inlet and outlet of the column, then j is given by:

$$j = \frac{3[(p_i/p_o)^2 - 1]}{2[(p_i/p_o)^3 - 1]}$$

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