where: Vg is the volume of the gaseous (liquid) reaction mixture passing through the catalyst per unit time, nm³/s;

 V_c is catalyst volume (contact mass), m^3 ; t_c is contact time in seconds, s. *Volumetric velocity* (W) is the volume of the reaction mixture passing through a unit volume of catalyst per unit time, nm³/m³-h or h⁻¹. It should be borne in mind that the second notation is very arbitrary, since volume units differ.