

rate of conversion, $\dot{\xi}$

The rate of conversion for a reaction occurring in a closed system is defined as the time derivative of the extent of reaction:

$$\dot{\xi} = d\xi/dt$$

In view of the definition of *extent of reaction* it follows that with reference to any species in a reaction showing time-independent *stoichiometry*:

$$\dot{\xi} = d\xi/dt = (1/\nu_i)(dn_i/dt)$$

where n_i is the amount of the species at any time and ν_i is its stoichiometric coefficient.

1996, 68, 180; 1992, 64, 1573; G.B. 55; 1996, 68, 989