

## compensation

*in catalysis*

For the process:

$$k = A e^{\frac{-E}{RT}}$$

where  $k$  is a rate constant,  $A$  the frequency factor and  $E$  the activation energy,  $A$  and  $E$  sometimes exhibit compensation, i.e. they change in the same direction with change in catalyst for a given reaction or with change in reaction for a given catalyst.

**Source:**

PAC, 1976, 46, 71 (*Manual of Symbols and Terminology for Physicochemical Quantities and Units - Appendix II. Definitions, Terminology and Symbols in Colloid and Surface Chemistry. Part II: Heterogeneous Catalysis*) on page 82