modified Arrhenius equation

This is an extension of the simple Arrhenius equation in which the pre-exponential factor is proportional to \( T^n \) where \( T \) is the temperature and \( n \) a constant:

\[
k = B \, T^n \exp\left(-\frac{E_a}{RT}\right)
\]

\( B \) is a temperature-independent constant.

Source:
PAC, 1996, 68, 149 (A glossary of terms used in chemical kinetics, including reaction dynamics (IUPAC Recommendations 1996)) on page 174