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Correlation between the Arrhenius viscosity parameters and the boiling temperature of some engineering fluids

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More, causal correlation between these parameters and the normal boiling temperature (Tb) of the corresponding fluids leads us to propose two predictive empirical equations one with the activation energy $\frac{1}{4\pi} \frac{1}{4\pi \pi} \frac{1}{$

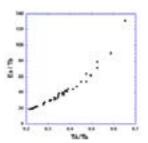


Figure 1 : Correlation between the ratios and Arrhenius activation energy-boiling point (Ea/Tb) and the Arrhenius temperature-boiling point (TA /Tb) for some pure solvents.

Where TA / (K) is the Arrhenius temperature for each pure solvents defined by the following equation:

$$T_A = \frac{-E_a}{Rin(A_s)}$$

Biography

Noureddine Ouerfelli has a PhD and Habilitation Diploma in Chemistry; he is a head of research project in the Laboratory of Biophysics and Medical technologies. He has published more than 45 papers in reputed journals on modeling of physicochemical properties in solution.

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