

Figure 1s density of allyl alcohol



Figure 2s viscosity of allyl alcohol



Figure 3s Density of ethanoic acid



Figure4s Speed of sound of ethanoic acid



Figure5s viscosity of ethanoic acid



Figure6s density of propanoic acid



Figure7s speed of sound of propanoic acid



Figure8s viscosity of propanoic acid



Figure 9s density of butanoic acid



Figure 10s Speed of sound of butanoic acid



Figure 11s viscosity of butanoic acid



Fig 12S: density with mole fraction (*x1*) of allyl alcohol in the binary liquid mixtures of allyl alcohol with butanoic acid (filled square); propanoic acid (filled circle) and ehanoic acid (filled triangle) at 303.15 K and (---) calculated with Jouyban -Acree model theory using Parameters at 303.15 K



Fig 13S: speed of sound with mole fraction (*x1*) of allyl alcohol in the binary liquid mixtures of allyl alcohol with butanoic acid (filled square); propanoic acid (filled circle) and ehanoic acid (filled triangle) at 303.15 K and (---) calculated with Jouyban -Acree model theory using Parameters at 303.15 K



Fig 14S: viscosity with mole fraction (*x1*) of allyl alcohol in the binary liquid mixtures of allyl alcohol with butanoic acid (filled square); propanoic acid (filled circle) and ehanoic acid (filled triangle) at 303.15 K and (---) calculated with Jouyban -Acree model theory using Parameters at 303.15 K