The electrical conductivity of liquid binary LaBr$_3$-alkali metal bromide mixtures was measured as function of the temperature over the whole composition range. Prior to these measurements, LaBr$_3$ was reinvestigated because of the discrepancies in the literature values. The classical Arrhenius equation did not stand for any individual mixture. These results were discussed in terms of complex formation in the melts.

Key words: Lanthanum(III) Bromide; Alkali Metal Bromides; Electrical Conductivity; Activation Energy; Complex Formation.