

Non-aqueous titrations: Solvent effect on potentiometric titrations of some amines

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Abstract Potentiometric titrations of some secondary amines; 2-aminoheptane, 2-aminoethylpyridine and cyclohexylamine were carried out with hydrochloric acid in toluene solvent. The same titrations were done with hydrochloric acid in methanol solvent to show the effect of amphiprotic solvent in the titrations with hydrochloric acid. For each weak base, an S-shaped potentiometric titration curve was obtained. As a result, toluene, which is an aprotic inert solvent, is a suitable solvent for titration of some weak bases by potentiometrically.

Keywords: non- aqueous titrations, toluene, hydrochloric acid, 2-aminoheptane, 2-aminoethylpyridine, cyclohexylamine
