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DESCRIPTORS: *Metalorganic compounds, *Potassium
compounds, Amides, *Alkyl radicals, *Benzenes,
*Deuterated compounds, Exchange reactions, *Metal-
ation, Reaction kinetics

The rate of deutero exchange between a solution of
potassium amide (0.02N) in liquid deuterioammonia and the
aromatic rings and alkyl groups of the following alkyl
benzenes: $C_6H_5CH_3$, *iso*- $C_6H_5C_2H_5$, *tert*- $C_6H_5C_4H_9$,
and *n*- $C_6H_5C_4H_9$ has been measured at 25, 10, and 0°C.
It has been found that deutero exchange and the metal-
(Chemistry--Physical, TT, v. 10, no. 1) (over)

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DESCRIPTORS: *Isotopes, *Deuterium, Organic com-
pounds, *Organic solvents, Hydrocarbons, *Ammonia,
*Halides, *Hydrogen, *Exchange reactions, Catalysis,
Chemical bonds, Acid-base equilibrium.

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- II. Vedenev, A. V.
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- Chap. 1. The isotopic composition of natural water
 - Chap. 2. Purification of water for isotopic analysis
 - Chap. 3. Determination of the concentration of heavy isotopes of hydrogen and of oxygen by density measurements of water
 - Chap. 4. The pycnometric method for measuring density
 - Chap. 5. Drop method for determination of density
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