## Phase Equilibrium of the Ternary System K<sub>2</sub>B<sub>4</sub>O<sub>7</sub> KBrH<sub>2</sub>O at 323 K

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Abstract In this paper equilibrium relationship and densities of solution in the temary system  $K_2 B_4 O_7$  –  $KBrH_2O$  at  $^{323}$  K were studied by isothermal equilibrium method. The experimental results show that the system is a type of simple common saturation and without complex salt and solid solution. Based on the solubility data—the phase diagram of the temary system was plotted which consists of one invariant point two univariant curves and two crystallization fields  $K_2 B_4 O_7 \cdot ^4H_2O$  and KBr. The experimental results show that KBr has the salting-out effect on  $K_2 B_4 O_7 \cdot ^4D_2O$  and KBr are also discussed K ey words. Saltwater system; Phase equilibrium; Potassium borate Potassium bromide

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