

COMPLEX FORMATION IN AQUEOUS SOLUTIONS AT HIGH  
PRESSURES AND HIGH TEMPERATURES

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Description of new spectrophotometric cell for visible and ultraviolet light, applicable to 500°C and 6000 bars. Measurements on solutions of  $\text{CO Cl}_2$ ,  $\text{Ni Br}_2$ ,  $\text{SO}_2$  and other solutes. The electrolytic conductance of KCl in water to 1000°C and 6000 bars. Formation of hydrated protons and proton mobility to 200°C and 800 bars. Apparatus to measure pure water conductance at static conditions to pressures and temperatures beyond 60 kbars and 600°C.

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