

**SORPTION OF WATER AND ELECTROLYTES  
BY ION EXCHANGE RESINS AND NEUTRAL SORBENTS  
WITH HYPERCROSSLINKED POLYSTYRENE MATRIX**

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**ABSTRACT**

This paper deals with two non-trivial properties of neutral hypercrosslinked polystyrene. The first is the dual behaviour of water towards the polymer (substantially different sorption of water vapour and liquid water) and the second is the differentiation between mineral acids and their salts by the unfunctionalized hypercrosslinked polystyrene. The paper discusses possible reasons accounting for the phenomena.