

## **Abstract**

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Title of Thesis: Tonicity adjustment of aqueous solutions of drugs.  
Oxymetazoline hydrochloride

The aqueous solutions of drugs for ophthalmic and nasal administration should be isotonic. Tonicity adjustment is mostly performed by the freezing point depression method. The objective of this experimental thesis was to measure density, osmolality and the freezing point depression of the oxymetazoline hydrochloride solutions and to use the experimental results for estimation of the molal osmotic coefficient and the osmotic pressure of the solutions. The objective, important in practice, is to set freezing-point depression data to complete a Table VIII of the Czech Pharmacopoeia.

