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The invention relates to the potable water purification, namely, to the processes for purification of the potable water from the nitrite-ions.

Summary of the invention consists in the fact that the purification process is conducted in presence of the reducer - ascorbic acid, taken in the molar ratio $[AAs] : [NO_2] = 10:1$ during 30-40 minutes.

The technical result of the invention consists in the fact that the ascorbic interacts with the nitrosonium - cation by transforming it into the inactive nitrosated agent nitrogen (II) oxide that 10 times decreases the concentration of the nitrite-ions in the potable water and increases the quality thereof.