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The invention relates to the field of corrosion protection of metals in water and can be used for inhibiting corrosion in closed steel pipeline systems.

The process for corrosion protection of steel in water consists in introducing succinic acid dihydrazide in an amount of 0.1…0.75 g/L and an aqueous extract of walnut leaves in an amount of 10…30 mL/L into the aqueous medium in contact with steel surfaces. Inhibitors can be introduced into the aqueous medium simultaneously or sequentially. The aqueous extract of walnut leaves is obtained by heating the raw material in water in a mass ratio of (2…4):10, in a water bath at a temperature of 70…100°C for 1…3 hours, and separating the resulting solution.

Claims: 1