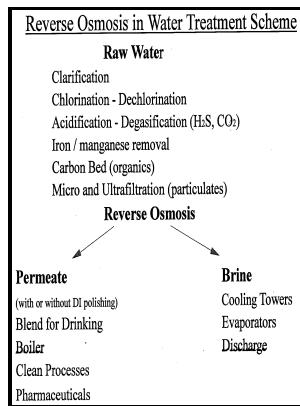


Chemistry of water treatment

Lewis Publishers - Treating the Public Water Supply



Description: -

- Water quality

Water -- PurificationChemistry of water treatment

-Chemistry of water treatment

Notes: Includes bibliographical references and index

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Tags: #Water #Treatment #Chemicals

What Are Water Treatment Chemicals

United States Geological Survey, 1999. Note: The crystal structure was drawn using PowderCell for Windows, and the image was rendered using POV-Ray see.

Water Treatment

Organic molecules, such as the dioxin a toxic byproduct of chemical bleaching and a precursor to powerful pesticides shown here, adhere to the surface of the PAC granules. Millipore, a Fisher Scientific partner, offers many lines of products to produce ultrapure water, using a combination of active charcoal membranes, and reverse osmosis filter.

Chemistry

H₂O is certainly the largest and most important component of any water source, but this molecule is hardly the only chemical present in the water supply.

Water Treatment Chemicals

Ion-exchange devices consist of a bed of plastic polymer beads covalently bound to anion groups, such as -COO -.

Treating the Public Water Supply

One strategy that is frequently employed to remove these solids is gravity filtration Figure 7.

Water Treatment Chemicals

Point-of-Use Water Softeners Household water softeners Figure 10 typically use a different process from the precipitation reaction described above , known as ion exchange. For instance, precipitation generates solids in the water from particles that had been dissolved; these solids must then be removed through sedimentation or filtration. Once water has been used, it must somehow re-enter the freshwater supply.

Chemistry

In this process, water containing solid impurities e.

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In April 1993, 403,000 people in Milwaukee were ill as a result of cryptosporidium contamination of water due to spring run off.

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