

Online Library
Determination Of
Available Chlorine
**Determinati
on Of**

**Available
Chlorine In
Bleaching
Solution**

*The DPD and
amperometric
methods for
determining free*

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Available Chlorine
available chlorine
In Bleaching
Solution

were compared in a study of chlorine demand in a denitrified (unchlorinated) wastewater. The DPD method was found to be more precise than the amperometric method. Chlorine demand of denitrified wastewater from the

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Determination Of
Available Chlorine
*Kanapaha Water
Reclamation Facility
(KWRF) was found to*

*increase with
increase in chlorine
dose. Total chlorine
demand was found to
increase with time
when dose was
constant. These
results support
previous work at the
KWRF which found*

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*increased chlorine
demand with chlorine
dose. Synthetic
(laboratory prepared)
water was spiked with
ammonium chloride
at various
concentrations to
determine the effect
of chloramines on the
free chlorine
measurement. The
interference of*

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chloramines,
In Bleaching
Solution
particularly

*monochloramine, on
the free available
chlorine residual
measurements made
using the DPD
method was
significant. The
amperometric method
showed no such
interference.*

DigiCat Publishing
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Online Library
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*presents to you this
special edition of "An
Solution*

*Introductory Course
of Quantitative
Chemical Analysis"
(With Explanatory
Notes) by Henry Paul
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***I.C.S. Reference
Library***

***Determination of
Available Chlorine in
Commercial
Hypochlorites ...
A Practical Guide to
the Design and
Implementation of
Freshwater Quality
Studies and
Monitoring
Programmes***

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*Water Quality
Monitoring
Determination of
Free Available
Chlorine in
Denitrified
Wastewater Effluent*

Ten different methods for determining total available residual chlorine, all based on the iodine-

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iodide reaction,
were tested
without
modification on
four sample
matrices. Their
precision was
determined by
seven replicate
determinations.
Accuracy, as
compared to the
iodometric starch

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titration method,
In Bleaching
Solution
was determined
in terms of

percent yield.

Observations
regarding
advantages,
disadvantages,
deviations from
the expected and
problems
involved in the
determination are

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recorded. The data are presented in tables arranged for instructive purposes and in a figure intended to present the data in reduced form for easier appraisal. The information obtained can be

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used by the analyst in determining which method is most suitable for a particular matrix. The data show the importance of the nature of the sample matrix. The necessity of comparing

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several methods in order to be certain of the accuracy is also obvious given the data. This report covers a period from March 1976 to November 1976 and was completed as of November 12, 1976.

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Water quality monitoring is a fundamental tool in the management of freshwater resources, and this book covers the entire monitoring process providing detailed guidance for implementing

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a monitoring
network with step-
by-step

descriptions of
field and
laboratory
methods.

D 1253 - 57

Standard Methods
of Test for
Residual Chlorine
in Industrial
Water

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Standard Test
Method for
Residual Chlorine
Solution

in Water

A Manual of
Analytical
Methods and
Useful Data for
the Chemist and
the College
Student

The Code of
Federal

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Regulations of the
United States of
America

The Chemical
examination of
water, sewage,
foods, and other
substances

*Determination of
Available
Chlorine in
Commercial
Hypochlorites*

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Available Chlorine

*...Comparison of
Methods for the
Determination of
Total Available
Residual
Chlorine in
Various Sample
Matrices*

*Special edition
of the Federal
Register,
containing a
codification of
documents of*

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general applicability and future effect ... with ancillaries. Standard Methods of Chemical Analysis A Study of the Effect of Activated Carbon on the Determination of Residual

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Chlorine in
In Bleaching
Water
Instructor's

Manual

An Introductory
course of
quantitative
chemical
analysis

Technical
Methods in
Analysis of
Metallurgical
and Allied

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Products

Is An Amalgam Of
Theory And
Experiments. It
Serves As A
Laboratory
Manual Of
Examination,
Testing,
Characterisation
And Evaluation Of
A Few Materials
Of Wide Industrial

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Determination Of
Available Chlorine
And Engineering
Application. The
Significance And
Practical Utility Of
The Various
Tests And The
Inferences Drawn
Therefore Have
Been Described In
Detail. The
Derivation Of The
Formulas, Where-
Ever Used, The

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Available Chlorine
Introduction,
Theory And
Related

Discussion Are
Quite Elaborate
And Touch The
Level Of A
Theory Text. The
Book Has Been
Designed To
Cover The
Laboratory
Courses In

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Available Chlorine
Applied Chemistry
In Bleaching
Solution
At The Various
Engineering And
Technical
Institutions. The
Book Will Be
Useful To The
Students Where
Applied Chemistry
Is Taught At The
M.Sc. Level And
To Public
Health/Water

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Available Chlorine
Analysis

Laboratories. It
Will Also Be
Useful To The
Students Of
Industrial
Chemistry A
Subject That Is
Being Introduced
At The
Undergraduate
Level In Some Of
The Universities.S

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Available Chlorine
Students Of All
Levels Of
Intelligence From
Very Weak To
Extremely
Brilliant Will Find
Something Of
Interest To Them
In The Chapter On
Solutions To Viva-
Voce Questions A
Striking Feature
Of The Book.

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In Bleaching
Solution

(A) These methods cover procedures for the determination of residual chlorine in industrial water. Provision is made for the determination of total chlorine, free available chlorine, and combined available chlorine

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Determination Of Available Chlorine In Bleaching Solution

in the presence of the amount of color, turbidity, iron, manganese, chromium, nitrites, and organic matter normally present. Three methods are given, as follows: (b) The referee method is amperometric, and

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In Bleaching
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is not subject to commonly encountered interferences.

This method is applicable to all types of industrial water having a residual chlorine content of not more than 5 ppm. Non-referee method A is

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Determination Of Available Chlorine

colorimetric, and is subject to interferences by certain ions and by elevated temperatures.

In Bleaching Solution

colorimetric, and is subject to interferences by certain ions and by elevated temperatures.

This method is not applicable to highly colored or turbid water. Non-referee method B is a dilution-colorimetric

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method subject to
interferences
similar to non-

referee method A,
but is applicable to
water containing
high amounts of
residual chlorine.

(c) Methods for
the determination
of residual
chlorine in water
containing

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appreciable
amounts of
industrial waste
are given in the
Methods of Test
for Residual
Chlorine in
Industrial Waste
Water (ASTM
Designation: D
1427).

With Seventy-two
Laboratory

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Exercises Giving
In Bleaching
Solution

the Analysis of
Pure Salts, Alloys,
Minerals and
Technical
Products
Or The
Quantitative
Determination of
Chemical
Substances by
Measure, Applied
to Liquids, Solids,

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Available Chlorine
and Gases

A Systematic
Handbook of
Volumetric
Analysis

B.D.H. Chlorotex
Outfit for the
Determination of
Residual Chlorine
in Drinking Water
and Swimming
Baths Purified by
Chlorination

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2000-

(A) These methods cover nonreferee procedures for the determination of residual chlorine in industrial waste water. A referee method and two nonreferee methods for the determination of residual chlorine in industrial water other

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Determination Of
Available Chlorine

*than that containing
waste are given in the
Methods of Test for
Residual Chlorine in
Industrial Water
(ASTM Designation:
D 1253). Provision is
made in these methods
for the determination
of total chlorine and
free available
chlorine. Provision is
also made for the*

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Determination Of
Available Chlorine
*determination of the
total chlorine in the
presence of most of
the interfering*

*constituents found in
industrial waste
water, either through
choice of the method
employed or by a
modification of the
same. Two methods
are given, as follows:*

Sections Non-Referee
Page 38/48

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In Bleaching
Solution

*Method A (Starch-
Iodide Titration*

*Method) 6 to 11 Non-
Referee Method B*

*(Amperometric
Titration Method) 12
to 20 (b) Both*

*methods are
applicable to the
determination of total
chlorine in industrial
waste water. Only non-
referee method B is*

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Solution

applicable to the determination of free available chlorine in industrial waste water. (c) The type of residual chlorine to be determined depends on the objective of chlorination. When a free chlorine residual is not required, a determination of the total chlorine

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normally suffices regardless of the composition of the chlorine residual. (d) Modifications of these methods are provided to eliminate one or more interferences present either initially in the industrial waste water or present subsequent to chlorination. The

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*methods are most
dependable when used
with industrial waste*

*water of known
composition.*

*This test method
covers the
determination of
residual chlorine in
water by direct
amperometric
titration.*

Determination of
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Determination Of
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Total Residual

Chlorine in Cooling

Water with the Orion

97-70 Ion-selective

Electrode

Determination of

Residual Chlorine and

Turbidity in Drinking

Water

Code of Federal

Regulations

General Methods used

in Technical Analysis,

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*Electrolytic Methods
of Chemical Analysis,
Physical*

*Measurements
employed in Technical
Analysis, Technical
Gas Analysis, Fuel
Analysis, Sulphurous
Acid, Sulphuric Acid,
and Nitric Acid,
Saltcake and
Hydrochloric Acid,
Sodium Carbonate,*

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In Bleaching
Solution

*The Chlorine Industry,
Cyanogen Compounds*

*Determination of
active chlorine*

content of bleach

using redox titration

The Code of Federal

Regulations is the

codification of the

general and

permanent rules

published in the

Federal Register by

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Available Chlorine

*the executive
departments and
agencies of the
Federal Government.
With Seventy-four
Laboratory Exercises
Giving the Analysis
of Pure Salts, Alloys,
Minerals and
Technical Products
A Text-book of
Quantitative
Chemical Analysis by*

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Available Chlorine
*Gravimetric,
Electrolytic, Volumetric
and Gasometric*

Methods

An Introductory

Course of

Quantitative

Chemical Analysis

Student Manual

Study Number 35 :

Report of a Study

Conducted by

Analytical Reference

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Service
In Bleaching
Solution