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Determination Of Bromate And Bromide

Specific conductimetric

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detection is combined
with the determination
of bromate by IC with a
concentration of

bromide. The most
important step is the
unselective enrichment
of all water

constituents by means
of a rotator evaporator
and a selective

removal of bromate in
raw and drinking
waters is possible

reduce to

concentrations of at

least $1 \mu\text{g l}^{-1}$.

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**Bromate - an
overview |
ScienceDirect Topics**

Determination of
Chlorite, Bromate,
Bromide, Chlorate in
Drinking water by IC.
AN149: Determination
of Chlorite, Bromate,
Bromide, and Chlorate
in Drinking Water by
Ion Chromatography
with an On-Line-
Generated Postcolumn
Reagent.

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AN149:

Determination of Chlorite, Bromate, Bromide, and ...

In the determination of bromate and iodate, any free bromide and iodide present was quantitatively removed by anion exchange with silver chloride exploiting the differences in silver salts solubility product, being AgCl, 1.8×10^{-10} , AgBr, 5.0×10^{-13} , AgI, 8.3×10^{-17}

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Bromate And
Iodate in
Seawater by Ion
-17, AgBrO₃, 5.5 × 10⁻⁵
-5 and AgIO₃, 3.1 ×
10⁻⁸. The oxyhalides
were reduced with
ascorbic acid to halides
and ...

Liquid-phase microextraction-gas chromatography-ma ss ...

In the determination of
bromate and iodate,
any free bromide and
iodide present was
quantitatively removed
by anion exchange

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Bromate And
Bromide in
Seawater By Ion
with silver chloride
exploiting the
differences in silver
salts ...

Determination of Bromate and Bromide in Seawater by Ion ...

The initial rate of the
bromate-bromide
reaction, $\text{BrO}_3^- + 5\text{Br}^- + 6\text{H}^+ \rightarrow 3\text{Br}_2 + 3\text{H}_2\text{O}$, has been
measured at constant
ionic strength, $I = 3.0$
 mol L^{-1} , and at

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several initial
concentrations of ...

Seawater By Ion **(PDF) Kinetics of the Bromate-Bromide Reaction at High ...**

The initial rate of the bromate–bromide reaction, $\text{BrO}_3^- + 5\text{Br}^- + 6\text{H}^+ \rightarrow 3\text{Br}_2 + 3\text{H}_2\text{O}$, has been measured at constant ionic strength, $I = 3.0 \text{ mol L}^{-1}$, and at several initial concentrations of acetate, bromate, bromide, and

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perchloric acid. The reaction was followed at the Br₂/Br₃-isosbestic point ($\lambda = 446 \text{ nm}$) by the stopped-flow technique. A very complex behavior was found such that the ...

Kinetics and Mechanism of Bromate–Bromide Reaction ...

At low bromide concentrations, the direct reaction

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between methyl orange and bromate, although slow, produces bromide, which is oxidised by bromate to bromine to give rise to further decolorisation of methyl orange. ... This effect is utilised for the determination of bromide at concentrations between 1×10^{-7} and $5 \times 10^{-9} \text{ mol l}^{-1}$.

Bromate oxidation

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Bromate And
of methyl orange.

Part II. Effect of ...

Determination of
bromide, bromate and
other anions with ion
chromatography and
an inductively coupled
plasma mass
spectrometer as
element-specific
detector. Divjak B(1),
Novic M, Goessler W.
Author information:
(1)National Institute of
Chemistry, Ljubljana,
Slovenia.

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Determination Of
Bromate And
**Determination of
bromide, bromate
and other anions
with ...**

Bromate may be formed in water during ozonation when the bromide ion is present (Haag & Hoigné, 1983). Under certain conditions, bromate may also be formed in concentrated hypochlorite solutions used to disinfect drinking-water (IPCS, 2000). This reaction is

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due to the presence of
bromide in the raw
materials (chlorine and

Bromate in Drinking- water - WHO

Introduction This
laboratory experiment
placed an emphasis on
the determination of
the order of reaction
and ultimately the rate
constant and activation
energy of the bromate-
bromide reaction. The
rate equation of this
reaction is represented

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by: $-d[\text{BrO}_3^-] / dt = k$
 $[\text{BrO}_3^-]^x [\text{Br}^-]^y [\text{H}^+]^z$
Hence, by using
varying and constant
amounts of bromate,
bromide, and [...]

The Kinetics of the Bromate-Bromide Reaction – Adam Cap

Bromate (BrO_3^-) in
water is a result of
using ozone to
disinfect water.
Naturally occurring
bromide reacts with

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ozone to form bromate which is considered to be a cancer causing agent and a threat to the overall health of individuals should they be exposed to high levels in their drinking water.

New Method for Determination of Bromate in Drinking Water ...

of 0.01 mg/L bromate. Here the sample was first fed through an

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anion-exchange
column. Following this
enrichment step the
anions were eluted to
the separation column
and detected by
measuring the
conductivity.

Conclusion The
determination of the
bromate con-tent of
water is a challenge
that can be met either
by using an ela borate
ion-

Bromate

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Bromate And
**determination in
water and - Merck**

An ion chromatographic method for determination of bromide and bromate in the presence of standard anions in drinking water was described. The method was based on separation on Metrosep A Supp 7-250 (250 x 4 mm) column with 3.6 mmol/L Na₂CO₃ as eluent and conductivity

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detection after
sequential chemical
and carbon dioxide
suppression. The
influence of flow rate
and column
temperature was ...

**Determination of
Bromide and
Bromate Ions in the
Presence ...**

bromate to non-
carcinogenic bromide.
However, if too much
potassium bromate is
added, or the bread is

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not baked long enough
or at a high enough
temperature, then a
residual amount will
remain. Thus, it is
important to ...
determination of
bromate in flour and
flour products.

Determination of Bromate in Flour and Bread by IC-MS

methods are necessary
for the determination
of trace levels of
bromate. For example,

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at a cancer risk level of 10⁻⁵ a threshold value for bromate less than 1 µg/L will be expected in the long term. The problem of bromate formation arises from the application of advanced oxidation processes (AOPs)

Fluorimetric determination of bromate by ion- exchange ...

injection rate, reaction
time, bromide ion

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concentration in raw water, and so on.

Kumar and colleagues showed a strong

correlation between bromate concentration in bottled water and bromide ion, as

bromide ion ($\mu\text{g/L}$) = $0.31 \times \text{bromide ion } (\mu\text{g/L}) + 2.37$ ($r = 0.78$) (Kumar et al., 2011).

Therefore, in order to control the bromate concentration of

Determination of

Download Free Determination Of Bromate And bromide ion in

**beverage raw water
using ...**

enhanced

determination of
bromate. EPA Methods
317.0 and 326.0 are
documented in Dionex
(now part of Thermo
Scientific) AN 136 and
AN 149.4,5 To improve
the sensitivity for
bromate using direct
injection, we developed
the Dionex IonPac
AS19 column. This
column was designed

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Bromide In

for use with hydroxide
eluent rather than the

Seawater By Ion

Determination of Bromate in Bottled Mineral Water Using

...

An ion chromatography
method for the
simultaneous
determination of trace
iodate, chlorite,
chlorate, bromide,
bromate and nitrite in
drinking water has
been developed using
an anion-exchange

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column and the suppressed conductivity detector, followed by post-column addition of reagent to enhance visible absorbance detection of ions.

Ion chromatographic determination of trace iodate ...

Method 321.8
Determination of
Bromate in Drinking
Waters by Ion
Chromatography.

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Waters by Ion
Chromatography
Inductively Coupled
Plasma - Mass
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