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Hermann Sicius

## Halogene: Elemente der siebten Hauptgruppe

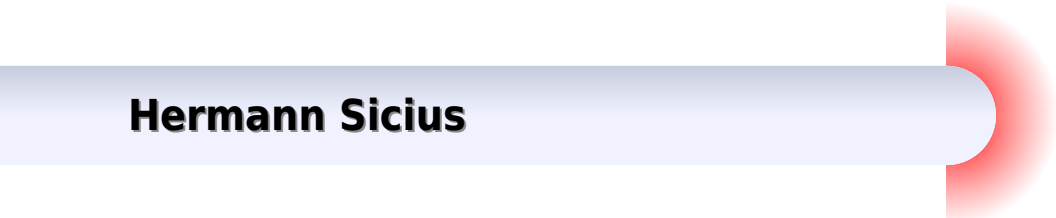
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# Halogene Elemente Siebten Hauptgruppe Essentials

**Hermann Sicius**



## **Halogene Elemente Siebten Hauptgruppe Essentials:**

**Halogene: Elemente der siebten Hauptgruppe** Hermann Sicius, 2015-07-14 Herr Hermann Sicius bringt dem Leser in knapper Form alle wichtigen Informationen rund um die Halogene nahe die eine der chemisch reaktivsten Gruppen von Elementen sind Die Halogene sind teils schon lange bekannt werden in sehr vielen Anwendungen eingesetzt und zeigen eine vor allem hinsichtlich ihrer Verbindungen mit anderen Nichtmetallen sehr interessante Chemie Fluor und Chlor sind bei Raumtemperatur Gase Brom ist neben Quecksilber das einzige unter diesen Bedingungen flüssige Element wogegen Iod Astat und m glicherweise auch Ununseptium unter diesen Bedingungen Feststoffe sind Lassen Sie sich überraschen Halogene sind weit mehr als nur Kochsalz und Iodoform

**Zinkgruppe: Elemente der zweiten Nebengruppe** Hermann Sicius, 2017-04-24 Hermann Sicius stellt ausführlich die Elemente der zweiten Nebengruppe vor Zink Cadmium Quecksilber Copernicium deren physikalische und chemische Eigenschaften relativ ähnlich sind Auswirkungen der Lanthanoidenkontraktion erkennt man hier kaum noch Cadmium steht in seinen Eigenschaften etwa zwischen dem Zink und dem Quecksilber Zink und Cadmium haben negative Normalpotentiale wogegen Quecksilber ein Halbedelmetall ist Die Elemente dieser Gruppe geben meist ein oder zwei äußere Valenzelektronen ab um eine stabile Elektronenkonfiguration zu erreichen Für das höchste Element dieser Nebengruppe das Copernicium konnten bisher kaum chemische Untersuchungen durchgeführt werden Es ist zu erwarten dass es sich chemisch ähnlich wie Quecksilber verhält Zink als Element kennt man seit dem 17. Jahrhundert Cadmium seit 1817 wogegen Quecksilber schon in der Antike bekannt war Die erstmalige Darstellung von Atomen des Coperniciums gelang 1996

**Vanadiumgruppe: Elemente der fünften Nebengruppe** Hermann Sicius, 2016-06-14 Hermann Sicius stellt in diesem essential die Elemente der fünften Nebengruppe Vanadiumgruppe ausführlich vor Er zeigt dass diese Elemente teilweise reaktiv aber gelegentlich auch sehr reaktionsträge sind dass sie an der Luft lagernd von einer dicken passivierenden Oxidschicht vor weiterer Korrosion geschützt und auch in Säuren nur selten und dann nur unter Anwendung drastischer Methoden löslich sind Die technische Anwendung zeigt der Autor für diese Elemente auf die alle sehr harte hochschmelzende Metalle sind und deren Verbindungen mit Kohlen und Stickstoff teils extrem hochschmelzende harte Schleifmaterialien darstellen die man auch industriell einsetzt Vanadium findet sich in Stahllegierungen Tantal in medizinischen Implantaten Ferroniob als Bestandteil von Gasturbinen oder Vanadium Voxid als Katalysator bei der Herstellung von Schwefelsäure

**Chromgruppe: Elemente der sechsten Nebengruppe** Hermann Sicius, 2016-06-23 Hermann Sicius stellt in diesem essential die Elemente der sechsten Nebengruppe Chromgruppe ausführlich vor Er zeigt dass die Elemente dieser Gruppe chemisch meist relativ reaktionsträge sind und regelmäßige Abstufungen ihrer Eigenschaften zeigen So nehmen vom Chrom zum Wolfram Dichte Schmelz- und Siedepunkte zu die Reaktivität leicht ab Chrom Molybdän und Wolfram entdeckte man Ende des 18. Jahrhunderts das nur künstlich darstellbare Seaborgium erst etwa 200 Jahre später Molybdän ist z. B. Bestandteil sehr harter Stähle Wolfram wurde für Wendeln von Glühlampen verwendet

**Mangangruppe: Elemente der siebten Nebengruppe** Hermann Sicius, 2016-09-08 Hermann Sicius stellt ausführlich die Elemente der siebten Nebengruppe Mangangruppe vor. Er zeigt, dass die Elemente dieser Gruppe mit Ausnahme des Mangans chemisch meist relativ reaktionsträge sind und regelmäßige Abstufungen ihrer Eigenschaften zeigen. So nehmen vom Mangan zum Rhenium Dichte, Schmelz- und Siedepunkte zu, die Reaktivität jedoch ab. Mangan findet sich als Bestandteil sehr harter Stähle. Technetium wird als Radiotherapeutikum eingesetzt. Braunstein wird in Batterien benutzt. Kaliumpermanganat als Desinfektionsmittel und Rhenium als Bestandteil ermüdungsfreier Legierungen für Turbinenschaufeln eingesetzt. Technetium war das erste Element, das nur auf künstlichem Wege erstmals dargestellt werden konnte. Rhenium ist eines der seltensten Elemente in der Erdhülle und nur Mangan kommt mit einem Anteil von 850 ppm noch relativ verbreitet vor. Bohrium wiederum, das schwerste Element der Gruppe, ist ebenfalls nur durch künstliche Prozesse (Kernfusion) zugänglich.

**BASICS Vorkurs Medizin** Paul Yannick Windisch, 2024-11-13 Mit dem Vorkurs Medizin schnell fit fürs Studium. GUT umfassende Wiederholung der Grundlagenfächer Mathematik, Chemie, Biochemie, Biologie und Physik, damit Sie gut vorbereitet dem Tempo der Vorlesungen folgen können. BESSER das Buch knüpft an das Wissen aus der Oberstufe an und baut die naturwissenschaftlichen Grundlagen auf, die fürs Medizinstudium notwendig sind. So klappt der Start in die Vorklinik. BASICS schneller Einstieg garantiert. pro Thema eine übersichtliche Doppelseite, viele Abbildungen und die beliebte Zusammenfassung und passend dazu Übungsfragen zu jedem Fach. NEU Kapitel Wissenschaftliches Arbeiten. Das Buch eignet sich für alle, die sich auf den Start ins Medizinstudium vorbereiten wollen. Neues Kapitel Wissenschaftliches Arbeiten. Frisches neues Layout.

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