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Tempo de leitura: 8 minutosCom certeza, você já ouviu falar do hidróxido de sódio, mais conhecido como Soda Cáustica. Muito utilizada no uso doméstico para o desentupimento de ralos e pias. No entanto, para algumas pessoas, a Soda Cáustica também pode ser utilizada para a produção de sabão. Além do sabão, ela também pode ser utilizada para funções mais amplas e complexas, como na indústria de diversos produtos de limpeza, combustíveis, tecidos e outros. Por ter diversos tipos de uso, a Pochteca Coremal, neste artigo, explicará detalhadamente o que é e para que serve a soda cáustica. Continue lendo para saber mais sobre suas utilidades! O que é Soda Cáustica? Antes de utilizar a soda cáustica para algum uso, é muito importante entender para que ela serve. Assim, você evita riscos, já que é um elemento de alto risco. Soda é um das nomenclaturas mais comuns para o hidróxido de sódio (NaOH), também conhecido como Soda Cáustica. O elemento é chamado desta forma por conta da sua identidade química, o hidrato de sódio e também por ser cáustico e corrosivo. Em sua forma pura, a soda cáustica é sólida, cerosa e branca. Ela é facilmente absorvida pela água e forma soluções aquosas. Apesar de ser uma substância de possíveis riscos, a soda cáustica ou hidróxido de sódio é comercializada como hidróxido de sódio monohidratado (NaOH·H20). Por que o Hidróxido de Sódio leva o nome de Soda Cáustica? A Soda Cáustica recebeu esse nome por conta de sua identificação química, o hidrato de sódio. Já a parte 'Cáustica' é devido ela ser corrosiva. Apesar de serem criados em laboratórios, as substâncias químicas que passam a ser utilizadas domiciliarmente ou na indústria recebem nomes popularizados, como o caso da soda. Como dito anteriormente, o hidróxido de sódio recebeu o nome de soda cáustica por ser corrosivo, causando danos severos na pele animal. Por isso, 'cáustico' é o nome que leva todo elemento que tem o aspecto corrosivo. Qual a composição da Soda Cáustica? O hidróxido de sódio possui a fórmula molecular NaOH, pertencente à classe das bases, classificada como forte. A soda cáustica possui uma densidade específica de 2.3 g/ cm³, ponto de fusão de 318 ºC (anidro), solúvel em água e solvente polar e gera uma solução corrosiva. Ela não pode ser encontrada na natureza, sendo sintetizada industrialmente pela eletrólise de uma solução aquosa de cloreto de sódio (NaCI). No processo de formação da substância são utilizados os eletrodos inertes, produzindo o gás cloro (CI2) no eletrodo positivo e gás hidrogênio (H2) no eletrodo negativo. O hidróxido de sódio é considerado uma substância química extremamente perigosa por ser tóxica e reagir exotermicamente (produzindo calor) com água, ácido e solventes polares. Com isso, a substância química pode liberar um vapor sufocante e corrosivo e formar soluções fortemente alcalinas. Quais os tipos de Soda Cáustica? Atualmente, existem dois tipos de soda cáustica para comercialização: a líquida e a em escamas. É importante saber para que cada uma serve para escolher a correta na hora da utilização. Confira abaixo a função de cada uma delas. Soda Cáustica Líquida A soda cáustica líquida pode ser utilizada para processo industriais de limpeza de componentes, além de servir para fabricação de produtos de higiene, como detergentes e desinfetantes. No entanto, ela também é muito usada para os desentupimentos residenciais, como vasos e pias. Por ser o primeiro estado da substância química, ela é considerada um pouco menos agressiva comparada a de escamas. Entretanto, ela ainda é capaz de corroer o estado de alguns materiais quando entra em contato, além de ser extremamente prejudicial para o corpo humano. Por isso, para utilizá-la é necessário equipamento de proteção. Se você estiver em busca de um hidróxido de sódio de qualidade, aqui na Pochteca você encontrará o ideal para você. Além da soda cáustica em solução 50%, em nosso catálogo, você encontra diversas outras substâncias químicas. Soda Cáustica Sólida (Soda em escamas) A soda cáustica sólida é obtida através do processo de evaporação da soda cáustica líquida, sendo altamente solúvel e reativa em água. Essa substância química sólida, na forma de escamas, tem maior concentração e, consequentemente, maior poder de limpeza. Por ser mais forte do que a líquida, a soda cáustica sólida é a maneira mais indicada para realizar sabões caseiros. Para que serve a Soda Cáustica? A soda cáustica é uma substância criada através de uma reação entre água e cloreto de sódio, mais conhecida como eltrólise. Por conta de ter uma alta capacidade corrosiva, ela é muito utilizada para limpezas profundas e desentupimento de canos. Essa substância química é conhecida como um grande suporte na limpeza residencial e industrial. Por muito tempo, foi usada como desentupidora de canos. No entanto, agora, ela possui utilidades como: Corrosão de resíduos de tinta e verniz; Remoção de ácidos graxos; Limpeza profunda em geral; Desentupimento de tubulações; Desobstrução de canos. Dependendo do tipo de soda cáustica, você também pode utilizá-la para fazer sabões caseiros. No entanto, é importante ressaltar que essa substância é extremamente corrosiva e tóxica. Então, utilize os equipamentos de segurança antes do manuseio. Quais as aplicações da Soda Cáustica? A soda cáustica ou hidróxido de sódio tem muitos usos distintos, como desentupir ralos e fazer sabão. Os principais usos da soda cáustica incluem seu uso como: limpador de canos de drenagem; desobstruir ralos; remover graxa acumulada em fornos; usado para fazer sabão e também detergentes. É um produto bastante versátil para ter em casa, pois tem muitos usos domésticos. Hidróxido de sódio e cloro são fabricados juntos para produzir alvejante de cloro. A razão pela qual os limpadores de ralo contêm hidróxido de sódio é que ele converte gases e graxa que entopem os canos em sabão, que então se dissolve na água. Tornando-o um limpador de ralos muito eficaz. A soda cáustica na indústria de fabricação de sabonetes é comumente usada para produzir sabonetes sólidos. Muitas pessoas conseguem fazer seus próprios sabonetes usando soda cáustica. Outra curiosidade para você que pesquisou para que serve soda cáustica é o seu uso na indústria sucroalcooleira na produção de açúcar cristal. Quais cuidados ter com o manuseio da soda cáustica? A soda cáustica é uma substância bastante perigosa. Em caso de contato com a pele, a soda cáustica pode causar queimaduras. Segue a lista dos demais riscos que a substância pode promover: Comer ou beber soda cáustica pode causar queimaduras graves e vômitos imediatos, náuseas, diarréia ou dor no peito e no estômago, bem como dificuldades de deglutição; Danos na boca, garganta e estômago são imediatos; Respirá-lo pode causar irritação grave do trato respiratório superior com tosse severa, queimaduras e também dificuldade para respirar; O contato com concentrações muito altas de soda cáustica pode causar queimaduras severas nos olhos, pele, sistema digestivo e nos pulmões, resultando em danos permanentes ou morte; O contato prolongado e repetido com a pele pode causar dermatite; A inalação repetida de vapor de soda cáustica pode levar a danos pulmonares agudos e permanentes. A gravidade dos efeitos nocivos da soda cáustica depende de alguns fatores, incluindo a concentração de hidróxido de sódio, o tempo de exposição e o quanto você a tocou, bebeu ou inalou. Devido a isso, o manuseio da soda deve ser restrito no setor industrial apenas a colaboradores capacitados e com experiência no manuseio de produtos químicos corrosivos, assim como o uso de EPIs como luvas de borracha, óculos com vedação apropriada e roupa de proteção. O uso de máscara para gases tóxicos se torna necessária ao manusear uma grande quantidade de soda cáustica, para que não sejam inalados os seus vapores. No entanto, como é uma substância química que é comercializada normalmente, antes de utilizá-la para limpezas profundas ou até mesmo no sabão, não se esqueça de se equipar com luvas, óculos de proteção e máscaras. Lembre-se, a soda cáustica é maléfica tanto no contato físico quanto no indireto, como na respiração. Se você utilizá-la com os equipamentos corretos, não terá riscos de se machucar com a substância. Como armazenar corretamente a soda cáustica? Por ser um produto químico extremamente solúvel em água, a soda cáustica absorve a umidade do ar com muita facilidade. Assim, ela se torna uma solução incolor quando é exposta ao ambiente por um tempo prolongado. Isso faz com que a soda cáustica perca grande parte da sua capacidade de higienização, prejudicando, assim, o resultado das formulações de sabão caseiro ou limpeza profunda. Por isso, após a compra da soda cáustica, você deve mantê-la sempre em sua embalagem original, tomando todo cuidado para manter o pote sempre tampado e devidamente vedado. A soda cáustica deve ser armazenada em um local fresco, ventilado e isolado do calor e da umidade. Para que sejam evitados acidentes com crianças e animais domésticos, o ideal é guardar o produto em armários trancados. Como adquirir Soda Cáustica? Apesar de ser uma substância química extremamente nociva à saúde do ser humano, a soda cáustica pode ser encontrada em estabelecimentos de produtos químicos. Qualquer pessoa pode comprar o hidróxido de sódio, mas com a conscientização que é uma substância química que pode causar sérios riscos. Por isso, quando for comprar a soda cáustica, aproveite e também adquira suas luvas, óculos de proteção e máscara. Assim, você poderá manuseá-la livremente, sem se preocupar com os danos. Outra dica importante para manuseá-la, é optar por uma vestimenta que tenha uma manga longa. Desta forma, você consegue também proteger os seus braços e possíveis acidentes. Se você quer uma soda cáustica de qualidade para realizar limpezas profundas, desentupimentos ou até a confecção de sabões caseiros, a substância da Pochteca é ideal para você! No entanto, se você precisar de mais substâncias químicas, em nosso catálogo você possui uma variedade para você escolher. Então, venha conhecer o nosso site e escolha as melhores soluções químicas com a Pochteca! Aprendeu para que serve a soda cáustica? 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Portanto, se você quer manusear uma soda cáustica de qualidade, opte pelos produtos da Pochteca. Com 70 anos de experiência no mercado de químicos, queremos oferecer produtos de alta qualidade e durabilidade para você! If you see this page, the nginx web server is successfully installed and working. Further configuration is required. For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com. Thank you for using nginx. Tempo de leitura: 8 minutosCom certeza, você já ouviu falar do hidróxido de sódio, mais conhecido como Soda Cáustica. Muito utilizada no uso doméstico para o desentupimento de ralos e pias. No entanto, para algumas pessoas, a Soda Cáustica também pode ser utilizada para a produção de sabão. Além do sabão, ela também pode ser utilizada para funções mais amplas e complexas, como na indústria de diversos produtos de limpeza, combustíveis, tecidos e outros. 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Quais as aplicações da Soda Cáustica? A soda cáustica ou hidróxido de sódio tem muitos usos distintos, como desentupir ralos e fazer sabão. Os principais usos da soda cáustica incluem seu uso como: limpador de canos de drenagem; desobstruir ralos; remover graxa acumulada em fornos; usado para fazer sabão e também detergentes. É um produto bastante versátil para ter em casa, pois tem muitos usos domésticos. Hidróxido de sódio e cloro são fabricados juntos para produzir alvejante de cloro. A razão pela qual os limpadores de ralo contêm hidróxido de sódio é que ele converte gases e graxa que entopem os canos em sabão, que então se dissolve na água. Tornando-o um limpador de ralos muito eficaz. A soda cáustica na indústria de fabricação de sabonetes é comumente usada para produzir sabonetes sólidos. Muitas pessoas conseguem fazer seus próprios sabonetes usando soda cáustica. 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Segue a lista dos demais riscos que a substância pode promover: Comer ou beber soda cáustica pode causar queimaduras graves e vômitos imediatos, náuseas, diarréia ou dor no peito e no estômago, bem como dificuldades de deglutição; Danos na boca, garganta e estômago são imediatos; Respirá-lo pode causar irritação grave do trato respiratório superior com tosse severa, queimaduras e também dificuldade para respirar; O contato com concentrações muito altas de soda cáustica pode causar queimaduras severas nos olhos, pele, sistema digestivo e nos pulmões, resultando em danos permanentes ou morte; O contato prolongado e repetido com a pele pode causar dermatite; A inalação repetida de vapor de soda cáustica pode levar a danos pulmonares agudos e permanentes. A gravidade dos efeitos nocivos da soda cáustica depende de alguns fatores, incluindo a concentração de hidróxido de sódio, o tempo de exposição e o quanto você a tocou, bebeu ou inalou. 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Conheça a Pochteca Agora que você sabe o que é e para que serve a soda cáustica, você precisa conhecer a Pochteca. A Pochteca é especializada na distribuição de produtos químicos para os setores mais exigentes da indústria. Por isso, oferecemos agilidade no fornecimento de insumos e a qualidade que você precisa para uma produção de excelência. Somos um grupo mexicano de âmbito internacional, presentes em 11 países, especializado na comercialização e distribuição responsável de insumos industriais. Por aqui, atendemos diversos setores, incluindo tratamento de água, tintas e revestimentos, mineração, indústria alimentícia, automotiva, e muito mais! Temos tanta expertise no que fazemos que atuamos no mercado de químicos desde 1952, quando iniciamos como distribuidora de produtos químicos em Recife, Pernambuco. Nossa empresa possui quatro pilares: excelência em talento, eficiência operativa e de cadeia de fornecimento, excelência comercial e solidez financeira. Com esses pilares conseguimos seguir com a nossa missão que é de ser o distribuidor de matérias-primas e soluções integradas preferido por clientes e fornecedores. Venha conhecer os nossos produtos! Aqui você encontra um atendimento rápido e personalizado. Converse agora mesmo com um de nossos consultores! E não se esqueça de acessar o Blog da Pochteca para conferir muitos outros artigos que podem ser relevantes para auxiliar na produtividade da sua empresa! Conclusão Agora que você já sabe o que é soda cáustica, é possível utilizá-la da melhor maneira possível, sem precisar se preocupar especificamente com os possíveis danos. No entanto, mesmo que esteja mais seguro para utilizar a substância química, não deixe de tomar as devidas proteções, como luvas, máscaras e óculos de proteção. Desta forma, você poderá utilizar a soda cáustica para diversas finalidades, como limpeza profunda, obstrução de canos, confecção de sabão caseiro e outros. Portanto, se você quer manusear uma soda cáustica de qualidade, opte pelos produtos da Pochteca. Com 70 anos de experiência no mercado de químicos, queremos oferecer produtos de alta qualidade e durabilidade para você! La sosa cáustica también se conoce como hidróxido de sodio, la fórmula química es NaOH, generalmente en forma de escamas o partículas, fácilmente soluble en agua (se disuelve en agua, exotérmica) y formando una solución alcalina, y delicuescente, fácil de absorber el vapor de agua en El aire . NaOH es uno de los productos químicos necesarios en los laboratorios químicos, y también es uno de los productos químicos comunes. Los productos puros son cristales incoloros y transparentes. Densidad 2.130g/cm³. Punto de fusión 318,4 grados. Punto de ebullición 1390 grados. Los productos industriales contienen una pequeña cantidad de cloruro de sodio y carbonato de sodio, que son cristales opacos de color blanco. Hay bloques, escamas, gránulos y varillas, etc. Fórmula 40.01.El hidróxido de sodio se puede utilizar como agente de limpieza alcalino en el tratamiento de agua, soluble en etanol y glicerol; insoluble en propanol y éter. También tiene un efecto corrosivo sobre el carbono y el sodio a altas temperaturas. Se desproporciona con halógenos como cloro, bromo y yodo. Neutraliza con ácidos para generar sal y agua.El objetivo principal:La soda cáustica tiene una amplia gama de usos. Se utiliza en la fabricación de papel, jabón, tintes, rayón, aluminio, refinación de petróleo, acabado de tejidos de algodón, purificación de productos de alquitrán de hulla, así como en la industria de procesamiento de alimentos, procesamiento de madera y maquinaria.experimento de químicaAdemás de usarse como reactivo, también se puede usar como desecante alcalino debido a su fuerte absorción de agua y delicuescencia. También puede absorber gases ácidos (como en el experimento de quemar azufre en oxígeno, la solución de hidróxido de sodio se puede embotellar para absorber dióxido de azufre tóxico).IndustrialEl hidróxido de sodio se usa ampliamente en la economía nacional y muchos sectores industriales requieren hidróxido de sodio. El sector que más utiliza hidróxido de sodio es el de fabricación de productos químicos, seguido de la fabricación de papel, aluminio, tungsteno, rayón, rayón y jabón. Además, en la producción de tintes, plásticos, productos farmacéuticos e intermedios orgánicos, la regeneración de caucho viejo, la producción de sodio metálico, la electrólisis del agua y la producción de sales inorgánicas, la producción de bórax, sales de cromo, manganatos, fosfatos. , etc., también deben utilizarse. Mucha sosa cáustica.Industria químicaLas características del hidróxido de sodio determinan que este producto sea una sustancia indispensable e importante en un gran número de reacciones químicas. El hidróxido de sodio es una de las materias primas importantes para la producción de policarbonato, polímeros superabsorbentes, zeolitas, resinas epoxi, fosfato de sodio, sulfito de sodio y un gran número de sales de sodio.El ácido oleico es un ácido graso monoinsaturado, que se obtiene por hidrólisis del aceite; El ácido suave y esteárico son ácidos grasos saturados, que se obtienen por hidrólisis de grasas.Si se usa hidróxido de potasio para la hidrólisis, el jabón resultante es suave.La adición de cloruro de sodio a la solución puede reducir la solubilidad de la sal de ácido graso y separar la sal de ácido graso, un proceso llamado salado. Las sales de ácidos grasos superiores son los principales componentes del jabón, que pueden tratarse con rellenos para obtener jabón en barra.Reacción de saponificaciónEl componente principal de la grasa y el aceite vegetal es el triglicérido, y su ecuación de hidrólisis alcalina es:Los grupos R pueden ser diferentes, pero el R-COONa resultante puede usarse como jabón. R comunes son:C17H33-: 8-heptadecenilo. R-COOH es ácido oleico.C15H31-: n-pentadecilo. R-COOH es ácido palmítico.C17H35-: n-heptadecilo. R-COOH es ácido esteárico.Absorbe el gas de dióxido de carbonoLos gases neutros y alcalinos se mezclan con CO_2, se puede utilizar la siguiente reacción para eliminar las impurezas:CO_2 más 2NaOH=Na_2CO_3 más H_2Ofabricación de papelEl hidróxido de sodio juega un papel importante en la industria del papel. Debido a sus propiedades alcalinas, se utiliza en el proceso de ebullición y blanqueo de hojas de papel.Industria de alimentosEl hidróxido de sodio se puede utilizar ampliamente en los siguientes procesos de producción: el proceso de limpieza de envases; el proceso de procesamiento del almidón; el proceso de preparación de carboximetilcelulosa; el proceso de fabricación de glutamato de sodio.Tratamiento de aguasEl hidróxido de sodio se usa ampliamente en el tratamiento del agua. En las plantas de tratamiento de aguas residuales, el hidróxido de sodio puede reducir la dureza del agua mediante una reacción de neutralización. En el campo industrial, es un regenerante para la regeneración de resinas de intercambio iónico. El hidróxido de sodio es fuertemente alcalino y relativamente soluble en agua. Debido a que la soda cáustica se encuentra en estado líquido, es fácil medir la dosis y se usa convenientemente en varios campos del tratamiento de agua.El hidróxido de sodio se utiliza en los siguientes temas en el tratamiento del agua: eliminación de la dureza del agua; ajuste del valor de pH del agua; neutralización de aguas residuales; regeneración de resina de intercambio iónico; Eliminación de iones de metales pesados en agua por precipitación.Fibras y textiles artificialesEn la industria textil, el hidróxido de sodio se utiliza para el tratamiento final y teñido de fibras. Aplicación principal: fibras artificiales mercerizadas.metalurgiaEl hidróxido de sodio se usa para tratar la bauxita, que contiene alúmina, en la que está presente el aluminio metálico. Aluminio (el segundo metal más utilizado en el mundo. El hidróxido de sodio también se utiliza para producir aleaciones de zinc y lingotes de zinc.Productos de limpiezaEl hidróxido de sodio se ha utilizado para propósitos diarios tradicionales y, hasta el día de hoy, la demanda de sosa cáustica en jabones, jabones y otros tipos de productos para el lavado todavía representa alrededor del 15 por ciento de la soda cáustica.Jabón: El uso más antiguo y extendido de la sosa cáustica es la fabricación de jabón, en el que se utiliza para neutralizar los ácidos grasos.Detergentes: El hidróxido de sodio se usa en la producción de varios detergentes, e incluso los detergentes para ropa de hoy en día están hechos de grandes cantidades de sosa cáustica, que se usa para neutralizar el exceso de oleum después de la reacción de vulcanización. Finding what's right for your skin type as opposed to what skincare products are trending can be a matter of trial and error. An example of this is the St Ives apricot body scrub. Many swore by this product for a long time before allegations of the scrub being too harsh on the face surfaced. Witch Hazel toners also enjoyed their moment as a favorite in the skincare world before it got exposed for being too strong and irritating the skin. This is why many people prefer going to dermatologists to skip this trial-and-error phase. But without a dermatologist, there are a few things you should know that are bad for your skin. Things like bleach and hemorrhoid cream shouldn't be part of your skincare routine, particularly if you've got sensitive skin. However, there are household items that can be part of your skincare routine, via Healthyway. Whether or not this includes items like sodium hydroxide is now a different conversation entirely. If you're interested in knowing what sodium hydroxide does to the skin, this article is for you. Sodium hydroxide is also known as lye, and it is an ingredient that is commonly found in soaps and other cleansing products, writes Cosmetics Info. It is a known irritant, and is usually only seen in its pure form in the process of manufacturing. However, if you're handling it, you should know that sodium hydroxide in its pure form is very caustic, and can cause skin and eye irritation, according to RusticWise. It can also cause respiratory problems if inhaled, and can be very poisonous when ingested. Products with sodium hydroxide can also give you rashes, hives, irritation and itching. Despite that, it doesn't mean that skincare products with sodium hydroxide are totally unsafe. For the most part, skincare products usually contain sodium hydroxide to balance their pH and keep the product from damaging your skin's acid mantle. According to Cel, if you have sensitive skin, you should steer clear of skincare products that contain sodium hydroxide — or at least, always run a check by using a tiny bit of the product on a part of your body other than your face, and wait for 24 hours to see how your skin would react to it and if there are any side effects. Prince Harry and Meghan Markle have always been affectionate in public. Critics noticed that Prince William and Kate Middleton suddenly started doing the same. By Kristin Conard Read More Melania and Ivanka Trump have long been rumored to be at odds behind the scenes and if these catty nicknames are any indication there may be some truth to that. By Marica Laing Read More Politics By Ethan Stinson Sarah Huckabee Sanders became one of the most recognizable faces in politics when she rose to MAGA stardom, but she used to look like a different person. 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By Edison Sun Read More The Republican Party isn't known for its progressive style, but this fashion trend spotted on Cheryl Hines and Kristi Noem is shockingly old-fashioned. By Stacey Grant Read More Meghan Markle recently highlighted an ideal Easter dress for Princess Lilibet that looks just like something Kate Middleton would buy for Princess Charlotte. By O. Z. Reyes Read More While honoring Ohio State University's NCAA football championship win, JD Vance fumbled the moment so bad even we're secondhand embarrassed. By Shana Aborn Read More Bettina Anderson recently posted a pic with Lauren Sanchez that appeared to show an alliance in the midst of Jeff Bezos' reported beef with Donald Trump. By Shana Aborn Read More Chemical compound with formula NaOH This article is about the chemical compound. For the commercial product, see Lye. Sodium hydroxide Unit cell, spacefill model of sodium hydroxide Sodium, Na Oxygen, O Hydrogen, H Sample of sodium hydroxide as pellets in a watchglass Names IUPAC name Sodium hydroxide[3] Other names AscariteCaustic sodaLye[1][2]Soda lyeSodium hydrateWhite caustic[3] Identifiers CAS Number 1310-73-2 Y 3D model (JSmol) Interactive image ChEBI CHEBI:32145 Y ChemSpider 14114 Y ECHA InfoCard 100.013.805 EC Number 215-185-5 E number E524 (acidity regulators, ...) Gmelin Reference 68430 KEGG D01169 Y MeSH Sodium+Hydroxide PubChem CID 14798 RTECS number WB4900000 UNII 55X04QC32I Y UN number 1823 (solid)1824 (solution) CompTox Dashboard (EPA) DTXSID0029634 InChI InChI=1S/Na.H2O/h;1H2/q+1;/p-1 YKey: HEMHJVSKTPXQMS-UHFFFAOYSA-M YInChI=1/Na.H2O/h;1H2/q+1;/p-1Key: HEMHJVSKTPXQMS-REWHXWOFAM SMILES [OH-].[Na+] Properties Chemical formula NaOH Molar mass 39.9971 g/mol Appearance White, opaque crystals Odor odorless Density 2.13 g/cm3[4] Melting point 323 °C (613 °F; 596 K)[4] Boiling point 1,388 °C (2,530 °F; 1,661 K)[4] Solubility in water 418 g/L (0 °C)1000 g/L (25 °C)[4]3370 g/L (100 °C) Solubility soluble in glycerol, negligible in ammonia, insoluble in ether, slowly soluble in propylene glycol Solubility in methanol 238 g/L Solubility in ethanol 139 g/L Vapor pressure ΔH, ΔG < 0) and non-spontaneity at low temperatures (ΔST < ΔH, ΔG > 0). Consider the following reaction between molten sodium hydroxide and finely divided iron filings: 4 Fe + 6 NaOH → 2 Fe2O3 + 6 Na + 3 H2 A few transition metals, however, may react quite vigorously with sodium hydroxide under milder conditions. In 1986, an aluminium road tanker in the UK was mistakenly used to transport 25% sodium hydroxide solution,[25] causing pressurization of the contents and damage to tankers. The pressurization is due to the hydrogen gas which is produced in the reaction between sodium hydroxide and aluminium: 2 Al + 2 NaOH + 6 H2O → 2 Na[Al(OH)4] + 3 H2 Unlike sodium hydroxide, which is soluble, the hydroxides of most transition metals are insoluble, and therefore sodium hydroxide can be used to precipitate transition metal hydroxides. The following colours are observed: Copper - blue Iron(II) - green Iron(III) - yellow / brown Zinc and lead salts dissolve in excess sodium hydroxide to give a clear solution of Na2ZnO2 or Na2PbO2. Aluminium hydroxide is used as a gelatinous flocculant to filter out particulate matter in water treatment. Aluminium hydroxide is prepared at the treatment plant from aluminium sulfate by reacting it with sodium hydroxide or bicarbonate. Al2(SO4)3 + 6 NaOH → 2 Al(OH)3 + 3 Na2SO4 Al2(SO4)3 + 6 NaHCO3 → 2 Al(OH)3 + 3 Na2SO4 + 6 CO2 Sodium hydroxide can be used for the base-driven hydrolysis of esters (also called saponification), amides and alkyl halides.[16] However, the limited solubility of sodium hydroxide in organic solvents means that the more soluble potassium hydroxide (KOH) is often preferred. Touching a sodium hydroxide solution with bare hands, while not recommended, produces a slippery feeling. This happens because oils on the skin such as sebum are converted to soap. Despite solubility in propylene glycol it is unlikely to replace water in saponification due to propylene glycol's primary reaction with fat before reaction between sodium hydroxide and fat. Mass fraction of NaOH (wt%) 4 10 20 30 40 50 Molar concentration of NaOH (M) 1.04 2.77 6.09 9.95 14.30 19.05 Mass concentration of NaOH (g/L) 41.7 110.9 243.8 398.3 572.0 762.2 Density of solution (g/mL) 1.043 1.109 1.219 1.328 1.430 1.524 For historical information, see Alkali manufacture. Sodium hydroxide is industrially produced, first as a 32% solution, and then evaporated to a 50% solution by variations of the electrolytic chloralkali process.[26] Chlorine gas is the main product from this process.[27][26] Solid sodium hydroxide is obtained from this solution by the evaporation of water. Solid sodium hydroxide is most commonly sold as flakes, prills, and cast blocks.[28] In 2022, world production was estimated at 83 million dry tonnes of sodium hydroxide, and demand was estimated at 51 million tonnes.[28] In 1998, total world production was around 45 million tonnes. North America and Asia each contributed around 14 million tonnes, while Europe produced around 10 million tonnes. In the United States, the major producer of sodium hydroxide is Olin, which has annual production around 5.7 million tonnes from sites at Freeport, Texas; Plaquemine, Louisiana; St. Gabriel, Louisiana; McIntosh, Alabama; Charleston, Tennessee; Niagara Falls, New York; and Bécancour, Canada. Other major US producers include Oxychem, Westlake, Shintek, and Formosa. All of these companies use the chloralkali process.[29] Historically, sodium hydroxide was produced by treating sodium carbonate with calcium hydroxide (slaked lime) in a metathesis reaction which takes advantage of the fact that sodium hydroxide is soluble, while calcium carbonate is not. This process was called causticizing.[30] Ca(OH)2(aq) + Na2CO3(s) → CaCO3(s) + 2 NaOH(aq) The sodium carbonate for this reaction was produced by the Leblanc process in the early 19th century, or the Solvay process in the late 19th century. The conversion of sodium carbonate to sodium hydroxide was superseded entirely by the chloralkali process, which produces sodium hydroxide in a single process. Sodium hydroxide is also produced by combining pure sodium metal with water. The byproducts are hydrogen gas and heat, often resulting in a flame. 2 Na(s) + 2 H2O(l) → 2 NaOH(aq) + H2(g) This reaction is