

Is Borax Boric Acid

In 1895 The San Bernardino Borax Mining Company was sold by Searles to the Pacific Coast Borax Company, owned by Francis "Borax King" Smith. He shut down production... 82501b736d Borax can be dehydrated by heating into other forms with less water of hydration. The anhydrous form of borax can also be obtained from the decahydrate or other hydrates by heating and then grinding the resulting glasslike solid into a powder. It is a white crystalline solid that dissolves in water to make a basic solution due to the tetraborate anion. 82501b736d

Sodium borate isotherms in the system sodium oxide-boric oxide-water. It can be seen as a hydrated sodium salt of the appropriate boroxo acid, although the latter may not be a stable compound. Revised solubility-temperature curves of boric acid, borax, sodium pentaborate, and sodium metaborate; Sodium borate is a generic name for any salt of sodium with an anion consisting of boron and oxygen, and possibly hydrogen, or any hydrate thereof 82501b736d

Borate boric oxide B_2O_3 and sodium carbonate Na_2CO_3 yielded on cooling two crystalline compounds with definite compositions, consistent with anhydrous borax A borate is any of a range of boron oxyanions, anions containing boron and oxygen, such as orthoborate BO_3^{3-} , metaborate BO_2^- , or tetraborate $B_4O_7^{2-}$; or any salt of such anions, such as sodium metaborate, $Na^+[BO_2]^-$ and borax $(Na^+)_2[B_4O_7]^{2-}$. The name also refers to esters of such anions, such as trimethyl borate $B(OCH_3)_3$ 82501b736d

The soffioni are usually arranged in groups, and are best represented in the Maremma of Tuscany, where they contain a small proportion of boric acid, for which they are utilized industrially. For such natural steam-holes, the French geologists often use the term soufflards in place of the Italian soffioni. 82501b736d == Geology == 82501b736d The terms tincal and tincar refer to the naturally occurring borax historically mined from dry lake beds... 82501b736d Borax is commonly available in powder or granular form and has many industrial and household uses, including as a pesticide, as a metal soldering flux, as a component of glass, enamel, and pottery glazes, for tanning of skins and hides, for artificial aging of wood, as a preservative against wood fungus, as a food additive, and as a pharmaceutical alkalizer. In chemical laboratories it is used as a buffering agent. 82501b736d Many sodium borates have important industrial and household applications; the best known being borax,

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$(\text{Na}^+)_2[\text{B}_4\text{O}_5(\text{OH})_4]2 \cdot 8\text{H}_2\text{O} = \text{Na}_2\text{B}_4\text{H}_{20}\text{O}_{17}$. 82501b736d The mining community of Trona is on its western shore. The evaporite basin is approximately 19 km (12 mi) long and 13 km (8.1 mi) at its widest point, yielding 1.7 million tons annually of industrial minerals within the basin to the Searles Valley Minerals mining operations. Searles Lake is bounded by the Argus and Slate Mountains, and was named after John Wemple Searles. 82501b736d Boric acid is often used as an antiseptic, insecticide, flame retardant, neutron absorber, or precursor to other boron compounds. 82501b736d

Searles Lake The lake in the past was also called Slate Range Lake and Borax Lake. Mineral Searles Lake is an endorheic dry lake in the Searles Valley of the Mojave Desert, in northwestern San Bernardino County, California. their Searles Lake operations include borax, V-Bor (borax with five moles of water), anhydrous borax, boric acid, soda ash, salt cake and salt 82501b736d

Sodium borates, as well as boroxy acids, are often described as mixtures $x\text{Na}_2\text{O} \cdot y\text{B}_2\text{O}_3 \cdot z\text{H}_2\text{O} = \text{Na}_2x\text{B}_2y\text{H}_{2z}\text{O}_{x+3y+z}$, with x, y, and z chosen to fit the elemental formula, or a multiple thereof. Thus, for example, borax $\text{Na}_2\text{B}_4\text{H}_{20}\text{O}_{17}$ would be $1\text{Na}_2\text{O} \cdot 2\text{B}_2\text{O}_3 \cdot 10\text{H}_2\text{O}$, and boric acid $\text{B}(\text{OH})_3$ would be $0\text{Na}_2\text{O} \cdot 1\text{B}_2\text{O}_3 \cdot 1\text{H}_2\text{O} = 2[\text{B}(\text{OH})_3]$. 82501b736d Boric acid has been used medically since ancient times, but its discovery as a chemical compound was not until the 1600s. Its antiseptic properties were reported around 1875. The compound was being used as a vaginal antiseptic by the late 1800s. Clinical studies of... 82501b736d The lake is home to the Trona Pinnacles, a spectacular geologic tufa formation and a National Natural Landmark. 82501b736d Borate ions occur, alone or with other anions, in many borate and borosilicate minerals such as borax, boracite, ulexite (boronatocalcite) and colemanite. Borates also occur in seawater, contributing to the absorption of low-frequency sound in seawater. 82501b736d The stratigraphic record at Searles Lake shows that it once held brackish water as deep as 200 m (660 ft). Fluctuations in lake levels correspond to the advances and retreats of glaciers in the Sierra Nevada Range. Thirty major lake levels occurred during the last 150,000 years, represented by a sequence of salt and mud beds. The precipitation of minerals occurred during long periods of lake evaporation. 82501b736d

Soffioni Cambridge University Press. "Borax and Boric Acid. Encyclopædia Britannica (11th ed. —Production in Tuscany".). Year Book of the American Pharmaceutical Soffioni (Italian: [sof'fjo:ni]; sometimes spelt suffioni), a name applied in Italy to certain volcanic vents which emit jets of steam, generally associated with hydrogen sulfide and carbon dioxide, sometimes also with a little ammonia and marsh gas 82501b736d

== Early life == 82501b736d == Natural occurrence == 82501b736d

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Boric acid However, boric acid and borates Boric acid, more specifically orthoboric acid, is a compound of boron, oxygen, and hydrogen with formula $B(OH)_3$. (1652–1715) from borax, by the action of mineral acids, and was given the name sal sedativum Hombergi ("sedative salt of Homberg"). It is usually encountered as colorless crystals or a white powder, that dissolves in water, and occurs in nature as the mineral sassolite. It is a weak acid that yields various borate anions and salts, and can react with alcohols to form borate esters. It may also be called hydrogen orthoborate, trihydroxidoboron or boracic acid 82501b736d

Searles Valley Minerals It is owned by the Indian company Nirma. It also Searles Valley Minerals Inc. is a raw materials mining and production company with corporate offices in Overland Park, Kansas. It has major operations in the Searles Valley centered in Trona, California where it is the town's largest employer. centered in Trona, California where it is the town's largest employer. The company produces borax, boric acid, soda ash, salt cake, and salt. It also owns the Trona Railway. The company produces borax, boric acid, soda ash, salt cake, and salt 82501b736d

The Trona facility extracts and ships 1.75 million tons of chemicals per year. 82501b736d

Boron trioxide It is a colorless transparent solid, almost always glassy (amorphous), which can be crystallized only with great difficulty. sodium sulfate. It is also called boric oxide or boria. Another method is heating boric acid above $\sim 300^\circ\text{C}$. Boric acid will initially decompose Boron trioxide or diboron trioxide is the oxide of boron with the formula B_2O_3 . It is then decanted, cooled and obtained in 96–97% purity. It has many important industrial applications, chiefly in ceramics as a flux for glazes and enamels and in the production of glasses 82501b736d

The ternary phase diagram of the Na_2O – B_2O_3 – H_2O phase diagram in the 0 – 100°C temperature range contains 13 unique hydrated crystalline sodium borates, including five important industrial products. 82501b736d The elemental formula was often interpreted as a z-hydrate of an "anhydrous" salt without any hydrogen, namely $Na_2xB_2yO_{3y}\cdot zH_2O$. However, later research uncovered that many borates have hydroxyl groups $HO-$ bound covalently to the boron atoms in the anion. Thus borax, for example... 82501b736d

Borax acid to form boric acid is: $Na_2B_4O_7\cdot 10H_2O + 2 HCl \rightarrow 4 H_3BO_3 + 2 NaCl + 5 H_2O$ Borax is sufficiently stable to find use as a primary standard for acid-base Borax (also referred to as sodium borate, tincal and tincar) is a salt (ionic compound) normally encountered as a hydrated borate of sodium, with the chemical formula $Na_2H_{10}B_4O_{17}$. Borax mineral is a crystalline borate mineral that occurs in only a few places worldwide in quantities that enable it to be mined economically 82501b736d

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The term "boric acid" is also used generically for any oxyacid of boron, such as metaboric acid HBO_2 and tetraboric acid $\text{H}_2\text{B}_4\text{O}_7$. Orthoboric acid was first prepared by Wilhelm Homberg (1652–1715) from borax, by the action of mineral acids, and was given the name sal sedativum Hombergi ("sedative salt of Homberg"). However, boric acid and borates have been used since the ancient history for cleaning, preserving food, and other uses. Borates also occur in plants, including almost all fruits.

Boric acid (vaginal) Boric acid has shown comparable effectiveness to antifungals in the treatment of vaginal yeast infections. Boric acid is an antiseptic used as a vaginal medication to treat vaginal infections including yeast infections, bacterial vaginosis, and trichomoniasis. The compound is not a pharmaceutical drug and is instead available over-the-counter. It is administered as a capsule or suppository inserted into the vagina. Clinical data for other vaginal infections are more limited.

Side effects of vaginal boric acid may include watery discharge, burning, itching, redness, bleeding, and erosive changes. They are usually mild and temporary. Boric acid can produce toxic effects, including death, if taken orally and/or at very high doses. The exact mechanism of action of boric acid as an antiseptic is unclear. Chemically, boric acid is a boron compound, or a compound containing the element boron, and is also known as trihydroxyboron.

Francis Marion Smith He was known nationally and internationally as "Borax Smith" and "The Borax King", as his company produced the popular 20-Mule-Team Borax brand of household cleaner. Borate Boron Borax Boric acid George Earle Shankle "American nicknames; their origin and significance" Francis Marion Smith (February 2, 1846 – August 27, 1931) was an American miner, business magnate and civic builder in the Mojave Desert, the San Francisco Bay Area, and Oakland, California. novel Burning Daylight was partially based on his life

History When John Wemple Searles arrived in the area in the 1860s, he was looking for gold and silver to mine. Instead he found a white crystalline powder, borax, in the dry Searles Lake bed. In 1873, he went into production as the San Bernardino Borax Mining Company to mine borax. Long mule teams were used to haul borax in wagons to San Pedro, until the much closer settlement of Mojave was used after the Southern Pacific Railroad reached it in 1876. Common borate salts include sodium metaborate (NaBO_2) and borax. Borax is soluble in water, so mineral deposits only occur in places with very low rainfall. Extensive deposits were found in Death Valley and shipped with twenty-mule teams from 1883 to 1889. In 1925, deposits were found at Boron, California on the edge of the Mojave Desert. The Atacama Desert in Chile also contains

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mineable borate concentrations. 82501b736d Boron trioxide has three known forms, one amorphous and two crystalline. 82501b736d == Structure == 82501b736d The mining, production, and assets of the present day Searles Valley Minerals Inc. have a long and varied history. 82501b736d Frank Smith created the Key System, an interurban private transit system, which operated in Oakland and the East Bay with a terminus in the San Francisco Transbay Terminal. 82501b736d == History == 82501b736d

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