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Sulfur hexafluoride compound formula

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Greenhouse Gas Sulphur Hexafluoride Names Elagas Esaflon Sulfur (VI) Fluoride Sulphur Fluoride IDs CAS No. 2551-62-4 Y 3D Model (JSSmol) Interactive ChEBI image CHEBI:30496 Y ChemSpider 16425 Y ECHA InfoCard 100.018.050 EC No 219-854-2 Gmelin Link 2752 KEGG D05962 N MeSH Sulfur +Hexafluoride PubChem CID 17358 RTECS number WS4900000 UNII WS7LR311D6 N UN NUMBER 1080 CompTox Dashboard (EPA) water 0.003% (25 °C)[2] Solubility is slightly soluble in water, very soluble with ethanol, hexani, benzene vapor pressure 2.9 MPa (at 21.1 °C) Magnetic susceptibility ( $\chi$ ) –44.0×10–6 cm3/mol Thermal behavior performance 13.45 mW/(m·K) at 25 °C[4] 11.42 mW/(m·K) Orthogonal Hexagonal Molecular Shape Octaedral Dipole Moment D Thermochemistrical Heat Capacity (C) 0.097 kJ/(mol-1(6) Pharmacological code ATC V08DA05 (WHO) EU EMA license data: sulfur itxafluoride Dangers Security Sheet Data External MSDS S-Phrases (Outdated) S38 NFPA 704 (Fire Diamond) 0 1 0SA NIOSH (Limits of U.S. Health Impact): PEL (Permissible) TWA 1000 ppm (6 MG /m3)[2] REL (Recommended) hexafluoridePolar hexafluoride Except as otherwise stated, data are given for materials in standard condition (at 25 °C [77 °F], 100 kPa). Y check (what is YN ?) Infobox refers to sulfur hexafluride (British spelling), an extremely powerful and persistent greenhouse gas mostly used as an electrical insulator and arc suppression. [7] It is inorganic, colorless, odorless, odorles non-combustible, and non-toxic. The SF6 has an octagonual geometry consisting of six fluoride atoms attached to the central sulfur atom. It's a hypervalent molecule. Typical non-polar gas, SF6 dissolves poorly in water, but is quite soluble in non-polar organic solvents. It has a density of 6.12 g/L at sea level, much higher than air density (1,225 g/l). It is usually transported as liquefied compressed gas. Synthesis and reactions of SF6 can be prepared from elements due to the impact of S8 on F2. It was also a method used by discoverers Henri Muasan and Paul LeBo in 1901. Some other sulfur fluorides are cogenerated, but they are removed by heating the mixture to disproportionately any S2F10 (which is highly toxic) and then cleaning the product using NaOH to destroy the remaining SF4. In addition, the use of bromine, sulfur hexafluoride can be synthesized from SF6 at lower temperatures (e.g. 100°C), as follows:[8] 2 CoF3 + SF4 + [Br2]  $\rightarrow$  SF6 + 2 CoF2 + [Br2] Virtually no chemistry reaction for SF6. The main contributor to SF6's inertness is the sterile interference of the sulfur atom, while its heavier group 16 counterparts, such as SeF6, are more reactive than the SF6 as a result of a less sterile obstacle (see example of hydrolysis). [9] It does not react with molten sodium below its boiling point, [10] but reacts exothermically to lithium. Greenhouse gas Mauna Loa sulfur hexafluoride times. Atmospheric concentration of SF6 against similar maniulation gases (right chart). Note the scale of the log. According to the Intergovernmental Panel on Climate Change, SF6 is the most powerful greenhouse gas that has been estimated, with global warming potential 23,900 times greater than CO2 compared over a 100-year period. [11] Hexafluoride sulfur is inert in the troposphere and extremely long-lived, with an estimated atmospheric life of 800-3,200 years. [12] SF6 measurements show that its global average mixing ratio reached over 10 parts per trillion (ppt) as of April 2020, and increases by about 0.35 ppt (3.5 percent) per year. [13] Average global SF6 concentrations increased by about seven percent a year during the 1980s and electronics. Given the small amounts of SF6 released compared to carbon dioxide, its overall individual contribution to global warming is estimated to be less than 0.2 percent, [15] however, the collective contribution of it and similar man-made halogen gases has reached about 10 percent as of 2020. [16] Alternative options are being tested. [17] In Europe, the SF6 falls under the F-Gas directive, which prohibits or controls its use for multiple applications. Since January 1, 2006, SF6 has been banned from both gas tracing and in all applications except the high-voltage distribution torque. [18] In 2013, the U.S. Department of Energy made a three-year effort to identify and fix leaks in its labs United States such as the Princeton Plasma Physics Laboratory, where gas is used as a high-voltage insulator, have been productive, reducing annual leaks by 1,030 kilograms (2,280 pounds). This was done by comparing purchases with inventory, assuming the difference leaked, then finding and fixing leaks. [19] More than 10,000 tons of SF6 are produced per year, most of which (more than 8,000 tons) are used as a gas-dielectric environment in the electrical industry. [20] Other main applications include inert magnesium casting gas, and as an inert filling for insulated fiberglass windows. The dielectric average SF6 is used in the electrical equipment, often replacing oil-filled circuit breakers (OCBs) that can contain harmful polychlorinated biphenyls (PCBs). Pressure-pressed SF6 gas is used as an insulator in gas-insulating distribution switches (GIS) because it has much higher dielectric strength than air or dry nitrogen. High dielectric strength is the result of high electric strength than air or dry nitrogen. High dielectric strength than air or dry nitrogen. High dielectric strength is the result of high electric strength than air or dry nitrogen. as indoor accommodation, as opposed to air-insulated electrical equipment, which takes up considerably more space. Gas-insulating electrical equipment is also more resistant to pollution and climate, and is also more resistant to pollution and climate, and is also more reliable in long-term operation through a controlled working environment. The impact of the arc chemically destroys SF6, although most decomposition products tend to quickly re-form SF6, a process called self-healing. [21] Arc or corona can produce defluoride disulfur (S2F10), a highly toxic gas, with phosgen-like toxicity. S2F10 was considered a potential chemical warfare agent in World War II because it does not produce tear gas or skin irritation, thus providing little warning of exposure. SF6 is also commonly found as high voltage dielectric in highvoltage particle accelerator supplies such as Van de Graaff and Pelletrons generators and high-voltage transmission of electron microscopes. Look at fluorochetons. [22] Medical use of SF6 is used to provide tamponade or retinal hole fork in retinal repair operations in the form of a gas bubble. It is inert in a glass-like chamber[25] and first doubles its volume 36 hours before being absorbed in the bloodstream in 10-14 days. SF6 is used as a contrasting tool for ultrasonic imaging. Sulfur hexafluoride microbeads increase the visibility of blood vessels to ultrasound. ULTRASOUND. used to study the vascular quality of tumors. [27] It remains visible in the blood for 3-8 minutes, and is exhaled by the lungs. [28] Tracer compound Sulfur hexafluoride is a gas tracer used in the calibration of the air dispersion model on the road; This research program was sponsored by the U.S. Environmental Protection Agency and conducted in Sonnyvale, California, on U.S. Highway 101. [29] Gaseous SF6 is used as a gas tracer in short-term ventilation efficiency experiments in buildings and enclosed enclosures, as well as to determine the penetrations, and the Earth's atmosphere has a slight concentration of SF6. Sulfur hexafluride was used as a non-toxic test gas in an experiment at St. John's Wood Underground Station in London, United Kingdom March 25, 2007. [30] Gas was released throughout the station, and monitored as it drifted around. The aim of the experiment, which was announced earlier in March by Secretary of State for Transport Douglas Alexander, was to investigate how toxic gas could spread across London Underground stations and buildings during the terror attack. Sulfur hexafluride is also regularly used as a gas tracer in laboratory tests for extraction. Gas is generated inside the hood and a battery of tests is performed, while a gas analyzer is located outside the hood samples for the SF6 to check the properties of restraining the hood. It is successfully used as a tracer in oceanography to study diapixic mixing and airborne sea gas exchange. Other uses of the U.S. Navy's Torpedo Mark 50 closed rankin-cycle motor system are powered by sulfur hexafluoride in an exothermic reaction with solid lithium. Plasma SF6 is also used in the semiconductor industry as a herbalist in processes such as deep reactive-ion digestion. A small fraction of SF6 is broken down in plasma into sulfur and fluoride, with fluoride ions performing a chemical reaction with silicon. [32] The magnesium industry uses a large amount of SF6 as an inert gas to fill in casting forms. [33] It presures wave smoguda in high-temperature microwave systems. The gas isolates the breakwater, preventing the inner arc. It was used in electrostatic speakers because of its high dielectric strength and high molecular weight. [34] From 1992 to 2006, the company was used to fill Nike Air bags in all of its shoes. [35] Raw materials for the production of chemical weapons disulfur decafluoride. For entertainment purposes, when breathing, SF6 forces the voice to become significantly deeper, due to its density much higher than the air as seen in this video. This is due to known effect of breathing heliium, because of which someone's voice becomes much higher. Both of these effects should only be tried with caution as these gases displace oxygen that the lungs are trying to extract from the air. Sulfur hexafluride is also mildly anesthetic. [36] For scientific demonstrations/magic as invisible water, as a light foil boat can be floated in the tank, like the balloon-filled Physiological effects and precautions Like xenon, sulfur hexafluoride is a non-toxic gas, but by displacing oxygen into the lungs, it also carries than air, a significant amount of gas when released will settle in low-lying areas and present a significant risk of asphyxiation when entering the area. This is especially true for its use as an insulator in electrical equipment, as workers can be in trenches or pits below equipment containing SF6. As with all gases, the density of SF6 affects the resonant frequencies of the vocal folds. The density of sulfur hexafluoride is relatively high at room temperature and pressure due to the large molar mass of gas. Unlike helium, which has a molar mass of about 4 g/mole, and the sound speed through the gas is about 134 m/s at room temperature, stepping voice down. By comparison, molar air mass, which is about 80% nitrogen and 20% oxygen, is approximately 30 g/mole, resulting in a sound speed of 343 m/s[39] Hexafluoride sulfur has an anesthetic potency just below nitrous oxide; [40] Sulfur hexafluoride uranium hexafluoride uranium hexafluoride uranium hexafluoride is classified as a mild anesthetic. [41] See 2015-03-27 also Selen hexafluoride uranium hexafluoride ur Hexafluoride - PubChem Public Chemical Database. In the 1990s, the National Center for Biotechnological Information. Archived from the original on November 3, 2012. Retrieved 22 February 2013. ^ a b c d e NIOSH Chemical Hazard Pocket Guide. #0576. National Institute of Occupational Safety and Health (NIOSH). In the 1990s. Fisher, Kai; 2002- 2002. Measurement and calculation of critical points for binary and thorn mixtures. 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