

chloroform carbon tetrachloride and pdf

Carbon Tetrachloride and Chloroform Partition Coefficients Derived from Aqueous Desorption of Contaminated ... Carbon Tetrachloride and Chloroform Partition Coefficients Derived from Aqueous Desorption of ... Carbon Tetrachloride and Chloroform Residuals in Sediment Cores..... 6.11 Tables 6.1 Bulk Fraction Classification of Aquifer Samples

Carbon Tetrachloride and Chloroform Partition Coefficients

Mechanisms of chloroform (CHCl₃) and carbon tetrachloride (CCl₄) toxicity to primary cultured male B6C3F1 mouse hepatocytes were investigated. The cytotoxicity of both CHCl₃ and CCl₄ was dose- and duration-dependent. Maximal hepatocyte toxicity, as determined by lactate dehydrogenase leakage into ...

Mechanisms of chloroform and carbon tetrachloride toxicity

The critical constants and orthobaric densities of acetone, chloroform, benzene, and carbon tetrachloride¹ ... chloroform, and carbon tetrachloride have been determined from a temperature of 100 °C and a pressure ... The critical constants and orthobaric densities of acetone, chloroform, benzene, and carbon tetrachloride ...

The critical constants and orthobaric densities of acetone

ADDITION OF CARBON TETRACHLORIDE AND CHLOROFORM TO OLEFINS. ... ELWOOD V. JENSEN, W. H. URRY. See all Hide authors and affiliations. Science 03 Aug 1945: Vol. 102, Issue 2640, pp. 128 DOI: 10.1126/science.102.2640.128 Article; Info & Metrics ... The first page of the PDF of this article appears above. Science. Vol 102, Issue 2640 03 August 1945 ...

ADDITION OF CARBON TETRACHLORIDE AND CHLOROFORM - Science

CSIA can also be used to evaluate degradation of the chlorinated methanes, carbon tetrachloride, chloroform, and dichloromethane. Anaerobic Biodegradation: Under anaerobic conditions, cometabolic degradation of carbon tetrachloride by methanogens, acetogens, fermenters, sulfate-reducers, and iron-reducers has been widely demonstrated.

Chlorinated Methanes (Carbon Tetrachloride, chloroform

Carbon Tetrachloride and Chloroform Attenuation Parameter Studies: Heterogeneous Hydrolytic Reactions JE Amonette MJ Truex JS Fruchter June 2006 Pacific Northwest National Laboratory Operated by Battelle for the U.S. Department of Energy Richland, Washington 99352

Project Work Plan Carbon Tetrachloride and Chloroform

Carbon tetrachloride was widely used as a dry cleaning solvent, as a refrigerant, and in lava lamps. In case of the latter, carbon tetrachloride is a key ingredient that adds weight to the otherwise buoyant wax. Solvent. It once was a popular solvent in organic chemistry, but, because of its adverse health effects, it is rarely used today.

Carbon tetrachloride - Wikipedia

CARBON TETRACHLORIDE Data were last reviewed in IARC (1979) and the compound was classified in IARC Monographs Supplement 7 (1987a). 1. Exposure Data 1.1 Chemical and physical data ... benzene, chloroform, diethyl ether, carbon disulfide and ethanol (Budavari, 1996) (e) ...

CARBON TETRACHLORIDE 1. Exposure Data

CARBON TETRACHLORIDE ii DISCLAIMER The use of company or product name(s) is for identification only and does not imply endorsement by the Agency for Toxic Substances and Disease Registry.

TOXICOLOGICAL PROFILE FOR CARBON TETRACHLORIDE

Carbon tetrachloride was a popular aerosol propellant in the 1950s and 1960s, which contributed to a growth rate of 10.7% per year from 1960- 1970 for the manufacture of carbon tetrachloride.

Preliminary Information on Manufacturing, Processing

The solubilities of caffeine in water, ethyl acetate, ethanol, carbon tetrachloride, methanol, chloroform, dichloromethane and acetone were measured by the gravimetric method which reported by early investigator (Zhu, 2001). For each measurement, an excess of known mass of caffeine was added to a known mass of solvent.

SOLUBILITY OF CAFFEINE IN WATER, ETHYL ACETATE, ETHANOL

Adsorption of Chlorinated Compounds (Chlorobenzene, Chloroform, and Carbon Tetrachloride) on Microporous SiO₂, Ag-Doped SiO₂ and Natural and Dealuminated Clinoptilolites

Adsorption of Chlorinated Compounds (Chlorobenzene

Solvent Miscibility Table acetic acid acetone acetonitrile benzene n -butanol butyl acetate carbon tetrachloride chloroform cyclohexane 1,2-dichloroethane dichloromethane dimethylformamide dimethyl sulfoxide dioxane ethanol ethyl acetate diethyl ether heptane hexane methanol methyl-t -butyl ether 2-butanone pentane n -propanol isopropanol ...

Solvent Miscibility Table

Carbon tetrachloride (CCl₄) is a colorless, highly volatile liquid with a sweetish (ethereal) odor similar to chloroform. It decomposes to highly toxic fumes of phosgene upon heating. It decomposes to highly toxic fumes of phosgene upon heating.

Carbon Tetrachloride - an overview | ScienceDirect Topics

The solubility of ofloxacin in 1,2-dichloromethane, chloroform, carbon tetrachloride, and water was measured by a gravimetric method from (293.15 to 313.15) K under atmospheric pressure, and the solubility data were correlated against temperature.

Solubility of Ofloxacin in 1,2-Dichloromethane, Chloroform

Mechanisms of Chloroform and Carbon Tetrachloride Toxicity in Primary Cultured Mouse Hepatocytes Article (PDF Available) in Environmental Health Perspectives 69:301-5 December 1986 with 85 Reads

(PDF) Mechanisms of Chloroform and Carbon Tetrachloride

The key difference between chloroform and carbon tetrachloride is that the chloroform (CHCl₃) is a powerful anaesthetic, but carbon tetrachloride (CCl₄) is not an anaesthetic. Furthermore, both chloroform and carbon tetrachloride has the same chemical geometry; tetrahedral geometry.

Difference Between Chloroform and Carbon Tetrachloride I

Download as PDF. Set alert. Renal Toxicology. H.M. Mehendale, ... Carbon tetrachloride is known to be metabolized by mouse and rat liver and kidney microsomes, ... Carbon tetrachloride (IARC 1999a) and chloroform (IARC 1999b) are hepatotoxic chemicals that increase liver neoplasms in mice.

Carbon Tetrachloride - an overview | ScienceDirect Topics

Carbon Tetrachloride is just another chemical the EPA has restricted its use. For an Amateur Chemist it is hard and expensive to come by. But if you are willing to sacrifice a little Chloroform (CHCl₃) it can be easily made. By bubbling Chlorine gas through the CHCl₃. What you will get is a yellow liquid of Carbon Tetrachloride and Hydrochloric ...

Author: Subject: How to make Carbon Tetrachloride

CHLORINATED ORGANICS HANDBOOK OXYCHEM TECHNICAL INFORMATION 10/2014. Dallas-based Occidental Chemical Corporation is a leading North American ... methylene chloride, chloroform, and carbon tetrachloride from the thermal chlorination of methyl chloride.

CHLORINATED ORGANICS HANDBOOK - Occidental Petroleum

Carbon tetrachloride poisoning occurs when a person is exposed to the carbon tetrachloride compound, found in some dry-cleaning agents and household cleansers.

Carbon Tetrachloride Poisoning: What You Need to Know

Carbon Tetrachloride and Chloroform Partition Coefficients Derived from Aqueous Desorption of Contaminated Hanford Sediments ... (PDF Available) ... Carbon Tetrachloride and Chloroform Residuals ...

Carbon Tetrachloride and Chloroform Partition Coefficients

pdf (449 k) pdf-plus (284 k) citing articles; the conversion of carbon tetrachloride and chloroform to carbon dioxide by rat liver homogenates

THE CONVERSION OF CARBON TETRACHLORIDE AND CHLOROFORM TO

The vibrational normal modes of liquid chloroform (CHCl_3) and carbon tetrachloride are examined with both infrared and Raman spectroscopy. The change in symmetry in the carbon tetrachloride versus the chloroform and the effect on the normal modes will be examined and the spectra collected will be compared to literature spectra/values.

LAB #5: VIBRATIONAL SPECTROSCOPY OF CHCl_3 AND CCl_4

Carbon tetrachloride, industrially also known by many other names like Halon 104 or Freon 10 in HVAC. It is the organic compound with the formula ... Basis: 1000kg methyl chloride, dichloromethane, chloroform and carbon tetrachloride from methane by chlorination Chlorine 1530kg Methane 305kg Reaction Yield (chlorinated methane) - 99-100% (based ...

Lecture: 31 - nptel.ac.in

1.1 This test method is designed for the determination of carbon tetrachloride (CCl_4) and chloroform (CHCl_3) in liquid chlorine. The lower limit of detection is dependent on the sample size and the instrument used; five ppm (w/w) is achievable.

Standard Test Method for Carbon Tetrachloride and

Carbon tetrachloride is a CNS depressant. Section 4 - First Aid Measures Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Material Safety Data Sheet - East Los Angeles College

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A019-2-App-MEK-Chloro-CTetra; The Series 8900 Analyzer provides direct measurement of Methyl Ethyl Ketone, Chloroform and Carbon Tetrachloride in ambient air. This instrument is utilized for remediation and Super Fund sites and to monitor workplace exposure limits.

Methyl Ethyl Ketone (MEK), Chloroform and Carbon

Bioremediation for the Hanford Carbon Tetrachloride Plume Subsurface Contaminants Focus Area ... In Situ Bioremediation for the Hanford Carbon Tetrachloride Plume (ISB), which is the term used in this ... $\text{â€} Concentrations of carbon tetrachloride and the by-product chloroform were measured every two weeks, while pH, temperature, and oxidation ...$

In Situ Bioremediation for the Hanford Carbon

One type of activated carbon fibre with a high micropore content was used to separate chloromethane mixtures and recover dichloromethane, chloroform and carbon tetrachloride. The adsorption process (which

was accompanied by a temperature change of the activated carbon fibre bed) and the desorption process were investigated by the application of fixed-bed techniques.

The Separation of Chloromethane Mixtures and the Recovery

Time courses of hepatic injuries induced by chloroform and by carbon tetrachloride: comparison of biochemical and histopathological changes Received: 11 February 1997 /Accepted: 12 May 1997 Abstract The relationship was investigated between biochemical and morphological changes in chloroform (CHCl₃)- and carbon tetrachloride (CCl₄)-induced ...

Time courses of hepatic injuries induced by chloroform and

Introduction. The Series 8900 analyzer offers direct measurement of chloroform, methyl ethyl ketone and carbon tetrachloride in ambient air. This device is suitable for remediation and super fund sites and for monitoring workplace exposure limits. The Series 8900 Analyzer for chloroform, methyl ethyl ketone, and carbon tetrachloride uses a flame ionization detector (FID) as the sensing element.

Measurement of Methyl Ethyl Ketones, Chloroform and Carbon

169 The Separation of Chloromethane Mixtures and the Recovery of Dichloromethane, Chloroform and Carbon Tetrachloride by Activated Carbon Fibre Jufang Wu^{1,2*}, Lan Ma¹, Hongyang Zhao and Zijiu Wang¹ (1) The Research Institute of Chemical Defence, 100083 Beijing, P.R. China.

The Separation of Chloromethane Mixtures and the Recovery

METABOLISM OF CARBON TETRACHLORIDE AND CHLOROFORM BY THE RAT. ... PDF; Abstract. Eighteen hours after intraduodenal administration of C 14 Cl 4, ... METABOLISM OF CARBON TETRACHLORIDE AND CHLOROFORM BY THE RAT. Benoy B. Paul and David Rubinstein.

METABOLISM OF CARBON TETRACHLORIDE AND CHLOROFORM BY THE

Carbon tetrachloride definition is - a colorless nonflammable toxic liquid CCl₄ that has an odor resembling that of chloroform and is used as a solvent and a refrigerant. ... Dictionary Entries near carbon tetrachloride. carbon steel. carbon suboxide. carbon sulfochloride. carbon tetrachloride. carbon tissue.

Carbon Tetrachloride | Definition of Carbon Tetrachloride

Under the Guidelines for Carcinogen Risk Assessment (U.S. EPA, 2005a), carbon tetrachloride is "likely to be carcinogenic to humans." This may be a synopsis of the full weight-of-evidence narrative. Quantitative Estimate of Carcinogenic Risk from Oral Exposure (PDF) (20 pp, 363 K)

Carbon tetrachloride CASRN 56-23-5 | IRIS | US EPA, ORD

CARBON TETRACHLORIDE- MATERIAL SAFETY DATA SHEET TABLE OF CONTENTS: 1. Chemical Product and Company Identification 2. Composition, Information on Ingredients 3. Hazards Identification 4. First Aid Measures 5. Fire Fighting Measures 6. Accidental Release Measures 7. Handling and Storage 8. Exposure Controls, Personal Protection CANADA 9.

CARBON TETRACHLORIDE- MATERIAL SAFETY DATA SHEET - MEGS

hexane, chloroform and carbon tetrachloride fractions of the ethanolic extracts of the leaves and stems of *Baccaurea ramiflora* (Lour.). Ethanolic extracts of the leaves Cytotoxic activity, and stems of *Baccaurea ramiflora* were subjected to solvent-solvent partitioning using n-hexane, chloroform and carbon

CYTOTOXIC ACTIVITY OF N-HEXANE, CHLOROFORM AND CARBON

Oxidation of Chloroform in an Aerobic Soil Exposed to Natural Gas. ... Get a printable copy (PDF file) of the complete article (507K), ... PAUL BB, RUBINSTEIN D. METABOLISM OF CARBON TETRACHLORIDE AND CHLOROFORM BY THE RAT. J Pharmacol Exp Ther. 1963 Aug; 141:141-148.

Oxidation of Chloroform in an Aerobic Soil Exposed to

Carbon Tetrachloride ... (NHL) and carbon tetra-chloride exposure. Statistically significant risks of NHL were

reported among individuals with potential exposure to carbon tetrachloride ... in ethanol and acetone, and miscible with benzene, chloroform, ether, carbon disulfide, petroleum ether, and oils. It is nonflammable and

RoC Profile: Carbon Tetrachloride; 14th RoC 2016

Miscibility of solvents For preparation of HPLC system, column and mobile phase, the miscibility of each ... 6 Carbon tetrachloride 7 Chloroform 8 Cyclohexane 9 Cyclopentane 10 Dichloroethane 11 Dichloromethane ... Carbon tetrachloride 8.6 8.6 0 0.5 0 0.18 0.97

Miscibility of solvents - wako-chem.co.jp

Chloroform Trichloromethane CX1050 Other non-specified industry: Analytical reagent. ... 24 Hours/Day: 7 Days/Week Material Safety Data Sheet Product name Supplier Synonym Material uses Product code Validation date In case of emergency Product and company identification Chloroform ... carbon monoxide halogenated compounds carbonyl halides ...

Material Safety Data Sheet - University of Nebraskaâ€“Lincoln

Carbon tetrachloride is a solvent for oils, fats, lacquers, varnishes, rubber waxes, and resins, and a starting material in the manufacturing of organic compounds.

Carbon tetrachloride | CCl4 - PubChem

Download PDF Info Publication number US20070225530A1. ... A further aspect of the present invention is a catalyst useful for the hydrodechlorination of carbon tetrachloride to chloroform, said catalyst comprising an alumina support and incorporated therein a metallic composition comprising 0.01 and 5 percent by weight of platinum based on the ...

US20070225530A1 - High Selectivity Catalysts for the

Carbon Tetrachloride Spill Area was designated as a separate Superfund site in 2002, when high levels of carbon tetrachloride were found both on and off the base property. It appears that the plume may not have been fully remediated, and its full extent is presently unknown. GAFB has, however, removed all monitoring wells where

TOXIC CAGES - earthjustice.org

Carbon tetrachloride is degraded to chloroform, dichloromethane, chloromethane and ultimately methane by hydrogenolytic dechlorinations. Many anaerobic bacteria can catalyze the first two reactions of this pathway using the cofactors heme, factor F 430 , and corrinoids, such as aquocobalamin and methylcobalamin.

Carbon Tetrachloride Degradation Pathway

Household cleaning products containing bleach can produce volatile organic compounds, including chloroform and carbon tetrachloride [Odabasi 2008]. Use of these common agents might, in part, explain elevated indoor CCl 4 concentrations.

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