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## **Chlorinated Solvents A Forensic Evaluation**

A formal definition is the mass of a certain

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volume of a substance divided by the mass of the same volume of hydrogen at the same temperature and pressure. Vapor density values and relationships to other chlorinated solvents are important in evaluations of the transport of a chlorinated solvent as a vapor.

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Concentrating on the five commonly encountered chlorinated solvents (perchloroethylene, trichloroethylene, methyl chloroform, carbon tetrachloride and CFC-113), forensic opportunities applicable to each are presented including the use of stabilizers, manufacturing impurities, surrogate

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chemicals and physical measurements and degradation products as diagnostic indicators.

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indispensable  
reference tool for  
researchers, regulators  
and analysts in the  
field.

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Concentrating on the  
five commonly  
encountered  
chlorinated solvents  
(perchloroethylene,  
trichloroethylene,  
methyl chloroform,



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carbon tetrachloride and CFC-113), forensic opportunities applicable to each are presented including the use of stabilizers, manufacturing impurities, surrogate chemicals and physical measurements and degradation products as diagnostic indicators.

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measurements and  
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as diagnostic  
indicators.

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Details Environmental  
forensics is emerging  
and evolving into a  
recognized scientific  
discipline with  
numerous applications,

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especially regarding  
chlorinated solvents.

## Evaluation **Chlorinated Solvents - A Forensic Evaluation - Knovel**

Given their frequency of detection in environmental investigations, techniques to age date and identify the origin of chlorinated solvent releases are of great interest in environmental forensic

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evaluation (eBook,  
2013 ...

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Perchloroethylene 293

## **Chlorinated solvents : a forensic evaluation**

Chlorinated solvents,  
especially  
tetrachloroethene  
(perchloroethylene or  
PCE), trichloroethylene  
(TCE), and methyl  
chloroform  
(1,1,1-trichloroethane  
or TCA) are among the

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most widespread  
Forensic  
Evaluation  
volatile organic  
compounds (VOCs)  
detected in soil and  
groundwater.

## **Source Identification and Age Dating of Chlorinated Solvents**

Chlorinated Solvents :  
A Forensic Evaluation  
by Robert D Morrison  
and Brian L. Murphy  
and Robert Morrison  
Overview -  
Environmental  
forensics is emerging



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and evolving into a recognized scientific discipline with numerous applications, especially regarding chlorinated solvents.

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Figure 3. Dual isotope study of chlorinated solvents

(Shoukar-Stash, et.al.)

Goldman, et.al. have

reported the

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determination of 3  
unique sources of TCE  
in groundwater  
samples from an  
aquifer at the Orion  
Public Housing Area  
near Moffett Field  
Naval Air Station in  
California, as shown in  
Figure 4.

## **Forensic Investigations Using Compound Specific Isotope ...**

Specific application  
techniques for crude oil

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& petroleum  
contaminants,  
chlorinated solvents,  
metals. 1,4-dioxane  
and PFAS; Things to  
consider when  
planning a forensic  
investigation (e.g.,  
analytical methods and  
laboratories, sampling  
plan) Part Two: Case  
studies related to the  
use of environmental  
forensic lines of  
evidence for: Litigation  
support

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## Solvents A **Environmental Forensic Techniques: Principles ...**

The most commonly encountered chlorinated solvents in environmental forensic investigations are TCE, TCA, PCE, CT, and MC. Physical and chemical properties of these solvents are summarized in Table 12.2.1. The high solubility of most chlorinated solvents is of special interest

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given their preference  
to dissolve into soil  
pore water and  
groundwater.

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comprehensive  
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technologies and  
approaches for  
characterization,  
monitoring and  
management of  
chlorinated and  
complex sites.

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Properties of Selected  
Chlorinated Solvents;  
Stabilizers and  
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Trichloroethylene  
(TCE); Carbon  
Tetrachloride; Methyl  
Chloroform; CFC-113;  
Forensic History of  
Drycleaning; A Forensic  
History of Degreasing  
with Chlorinated  
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Investigations of Dry  
Cleaners; Releases  
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Transport Models;  
Dating Releases from  
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objective and robust

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### Field

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evaluation of natural attenuation. Before natural attenuation can be used in the remedy for contamination of ground water by chlorinated solvents, additional information is required on the three-dimensional flow field of contaminated ground water in the aquifer, and on the physical,

**United States  
Environmental**

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## Solvents A **Protection Agency Technical ...**

Skin exposure to the solvent mixture may cause irritation and defatting injury.

Chlorinated brake cleaner containing tetrachloroethylene will on exposure to high temperatures (above 500 °F (260 °C)) or strong UV light decompose into phosgene and hydrogen chloride, both of which are

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dangerous when  
inhaled.

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ecf8427e.