Modeling Of Inhalation Exposure To Vapors Uptake Distribution And Elimination Vol 2

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Modeling Of Inhalation Exposure To

The Human Exposure Model (HEM) is used primarily for performing risk assessments for sources

emitting air toxics to ambient air. The HEM only addresses the inhalation pathway of exposure, and is designed to predict risks associated with chemicals emitted into the ambient air (i.e., in the vicinity of an emitting facility but beyond the facility's property boundary).

Risk Assessment and Modeling - Human Exposure Model (HEM ...

The model was originally developed to predict blood and exhaled breath chemical concentrations in humans during inhalation exposures of less than 5 minutes duration and includes a breath-by-breath description of inhalation in humans (Vinegar et al., 2000).

PBPK Modeling of Canine Inhalation Exposures to ...

An exposure route exposure routeThe way a chemical pollutant enters an organism after contact, e.g., by ingestion, inhalation, or dermal absorption. is the way that a contaminant enters an individual or population after contact (IPCS, 2004). Typically, exposure occurs by one of three exposure routes—inhalation, ingestion, or dermal.

Exposure Assessment Tools by Routes - Inhalation | EPA ...

In conclusion, the results of our exposure modeling showed that estimates of aerosol inhalation exposure obtained using consumer exposure models were suitable for short-term exposures (i.e., within 10 min after spraying), while the estimates for long-term exposure (i.e., for several hours after spraying) differed significantly from experimental estimates due to the differences in input ...

Comparison of modeled estimates of inhalation exposure to ...

It is envisaged that the source–receptor model and its visual depiction will improve the understanding of processes leading to inhalation exposure. The conceptual framework can be seen as the ‘building blocks’ for the development of a new higher tier exposure model (Advanced REACH Tool) (Tielemans et al., 2007). A SOURCE–RECEPTOR MODEL

Conceptual Model for Assessment of Inhalation Exposure ...

steady-state approximation is suitable for describing inhalation exposures lasting from minutes to hours but is not able to describe the first second to minute of an exposure. Using the model with the modified RT, Vinegar et af. (2000) described a procedure for setting safe acute exposure limits for halon replacement chemicals.

PBPK Modeling of Canine Inhalation Exposures to ...

The lack of data for inhalation exposure concerning the handling of nanostructured materials is limiting the current nanomaterial risk assessment. However, there are numerous studies dealing with the origin of exposure, i.e., the release. The link between release and exposure are transport and transformation phenomena. Thus, propagation modeling was used to simulate transport from source to ...

Estimation of Inhalation Exposure on the Basis of Airborne ...

This study develops a dose response model for Pseudomonas aeruginosa for the inhalation route of exposure using pre-existing data.P. aeruginosa is an opportunistic pathogen capable of causing community and hospital-acquired lung infections. As such, a dose response model for this route of exposure is needed to assess risks posed by the inhalation of aerosols from showers, humidifiers, or hot ...

A dose response model for the inhalation route of exposure ...

The following parameters were used in evaluation of acute and subchronic inhalational risks for the deterministic modeling: (1) exposure time outside vs inside, (2) inhalation rate (IR), (3 ...

Children's inhalation exposure to methamidophos from ...

Human inhalation exposure to PAHs was evaluated based on B[a]P eq, which was calculated by using the model predicted PAH concentrations at 1.5 m above ground surface and toxicity equivalent factors. The calculated B[a]P eq values at 1 × 1-km 2 resolution were population-weighted to address the overall carcinogenic risk.

Inhalation exposure to ambient polycyclic aromatic ...

While Tier I models estimating exposure are available, should they be unable to show safe use, then refinement with more data or better assumptions is the only way forward. The Advanced REACH Tool (ART) version 1.5 incorporates a mechanistic model of inhalation exposure and a statistical facility to update the estimates with measurements selected from an in-built exposure database or the user ...

The Advanced Reach Tool - ART

Inhalation of contaminants in air (dust, vapor, gases), including those volatilized or otherwise emitted from groundwater, surface water, and soil. Dermal contact with contaminants in water, soil, air, food, and other media, such as exposed wastes or other contaminated material. External exposure to radiation.

Chapter 6: Exposure Evaluation: Evaluating Exposure ...

Model overview. Inhalation of A. fumigatus spores leads to varying pathologic outcomes depending on the host immune status 17.In healthy individuals fungal elements are thought to be cleared via ...

In silico modeling of spore inhalation reveals fungal ...

Existing Inhalation PBPK Models Category of gases Inhalation PBPK model: Gases (based on water solubility and reactivity) •Example –Styrene •solubility in water = 0.03 % (20 0C) U.S. EPA, Methods

for derivation of inhalation reference concentrations and applications of inhalation dosimetry, October 1994; (EPA/600/8-90/066F) Model types ...

Physiologically based Pharmacokinetic Modeling of Inhaled ...

Physiologically based pharmacokinetic modeling (PBPK) is a valuable tool to evaluate inhalation exposure of volatile organic compounds (VOCs). Many literature models are ad hoc, built for a single purpose/molecule, include small subset of tissues, and rely on experimental or fitted partition coefficients.

Generalized PBPK Model for Evaluation of Inhalation ...

Wong, Brian A Automated feedback control of an inhalation exposure system with discrete sampling intervals: testing, performance, and modeling Inhal Toxicol 2003 15 729 43 Google Scholar | Crossref | Medline | ISI

Inhalation Exposure Systems: Design, Methods and Operation ...

The program contains models for inhalation, dermal and oral routes of exposure having various degrees of complication, ranging from simple, screening level to more advanced, mechanistic models (Delmaar et al., 2004). One potentially important pathway of exposure is the inhalation of respirable aerosol particles that are

The ConsExpo Spray Model

The present paper proposes a source-receptor model to schematically describe inhalation exposure to help understand the complex processes leading to inhalation of hazardous substances.

Conceptual Model for Assessment of Inhalation Exposure ...

Ethanol toxicokinetics resulting from inhalation exposure in human volunteers and toxicokinetic

modeling Inhal Toxicol . 2014 Feb;26(2):59-69. doi: 10.3109/08958378.2013.853714.