

Wastewater VOC Emissions Modeling Software: Toxchem™

DISCOVER UP TO 50% LOWER VOC EMISSIONS

Toxchem™ supports TRI REDUCTIONS, EMISSION REDUCTION CREDITS, FENCELINE MONITORING, AND AIR DISPERSION MODELING, provides opportunities for refinery growth and expansion—sometimes without the need for a control device—and uncovers lower, more accurate, outputs for emission inventory reporting and TRI.

Toxchem is specifically included in Appendix C of 40 CFR Part 63 as an accepted alternative to Water9 for estimation of wastewater treatment emissions.

Developed by Hydromantis Software Solutions, Toxchem™ is a Windows-based computer program that estimates air emissions from wastewater collection and preliminary/primary/secondary treatment & disposal facilities. The software was developed to overcome limitations to Water9.

TOXCHEM™ PREFERRED OVER WATER9 USED BY THE EPA

Toxchem™ is even used by EPA OAQPS for difficult and advanced modeling activities in place of Water9 or EPA's RWET model.

CONTACT

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WHY TOXCHEM™ OVER WATER9?

- » **Consistently models significantly lower VOC emissions** from your wastewater system, which means reduced emission fees as well as lower overall site emissions.
- » **Provides a more user-friendly experience**, organizing modeled process units into separate tabs, summarizing emissions in a "report" function, and allowing changes to parameters without corrupting the existing model, or saving as separate files.
- » **Makes life simpler** with a great graphic interface and high quality PDFs of modeled processes.
- » **Adapts with the refinery**, incorporating changes and growth as experienced by the facility.

SOFTWARE HIGHLIGHTS

- » A Precise Kinetic Rate Model - Accounts for pH, temperature, changes in vapor pressure, mass transfer flux, solubility, sorption, and biodegradation using first order and second order kinetics.
- » Modern Graphic User Interface
- » Comprehensive Model Library with Over 50 Unit Processes
- » Easy System Layout
- » Comprehensive Database with Over 800 Organic Compounds
- » Smart Visualization
- » Mass Balance Table
- » Contaminant Fate Table
- » Individual Unit Results
- » Output Reports
- » Excel File Import and Exports
- » Sensitivity Analysis and Other Validation Tools (e.g., back-solver tool)

TRAINING HIGHLIGHTS

- » Customized On-Site Toxchem™ Training available through Sage
- » Wastewater VOC Emissions Modeling Essentials: Toxchem™ Training through HSE University (illuminateyourbrain.com)