Release Notes
BREEZE Incident Analyst 1.4

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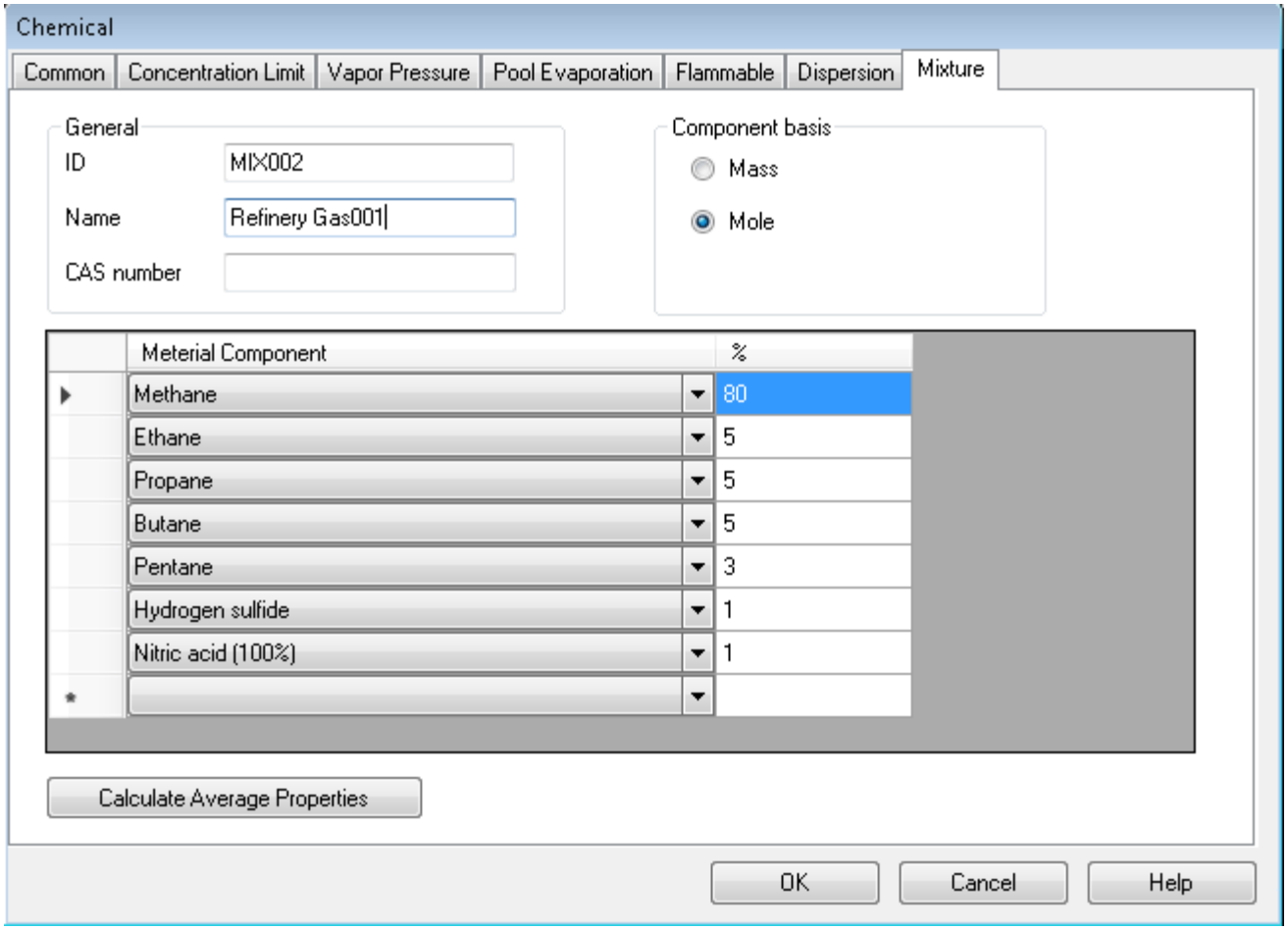
Release Notes

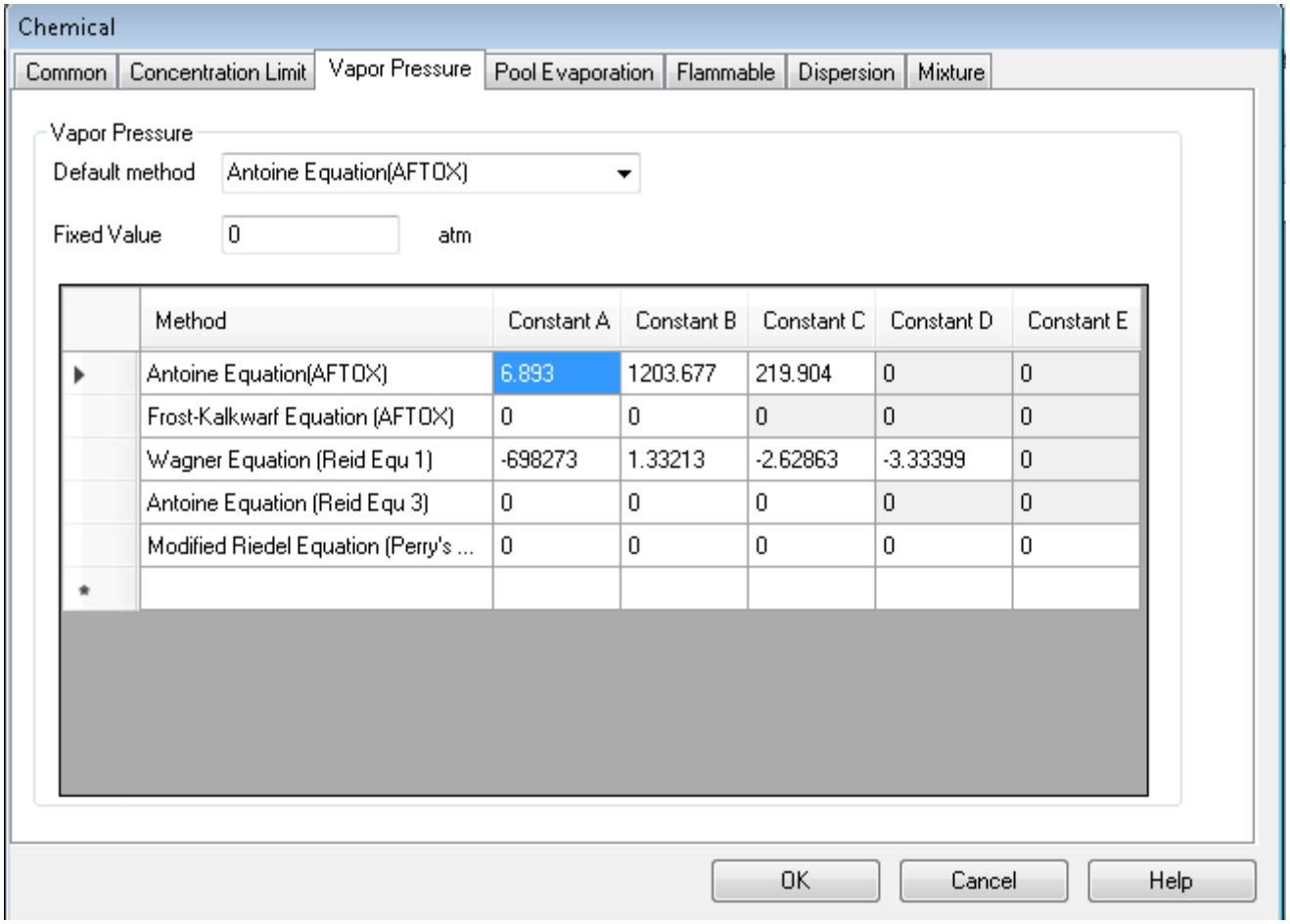
What's New in 1.4

- Improved Chemical Database to include the following updates:
  - Edit the database without having administrator privileges
  - Add Level of Concern (concentration standards) to the modeling runs

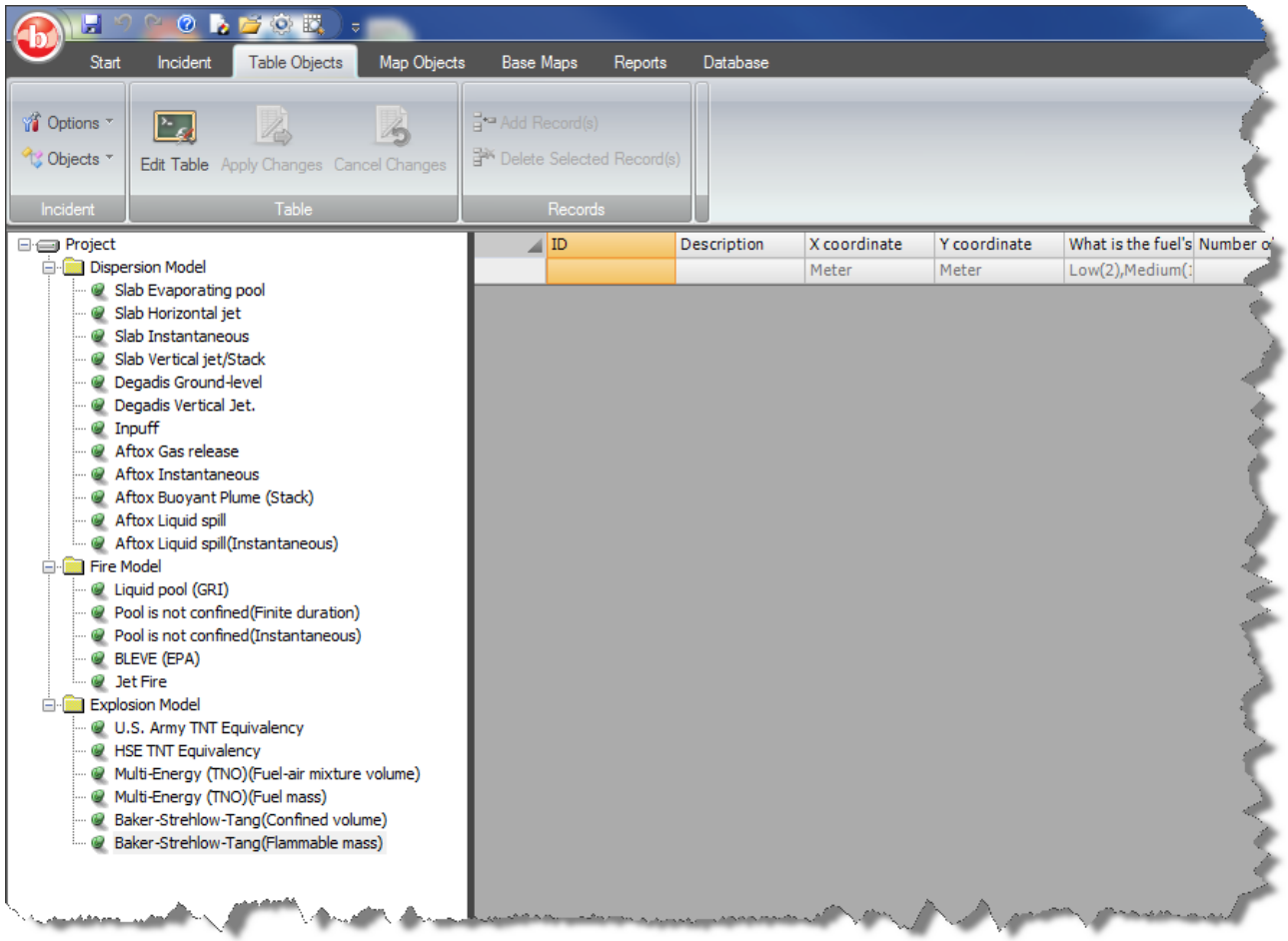
- Add mixtures with more than five chemical components



- Edit chemicals efficiently and accurately with the improved Chemical Edit window



- Implemented numerous bug fixes to the source term calculations and models in Incident Analyst to ensure a smooth modeling experience
- Added a new Table Objects Tab to speed up scenario setup and editing of sources



- Updated ComponentOne to the latest version to improve stability and pave the way for additional improvements in the future
- Optimized the naming conventions for Chemical IDs manually added by users
- Added several warning messages, including a warning message:
  - Before automatically changing Surface Roughness when an AFTOX buoyant stack source is added
  - To remind users of the constants used in Antoine Equation (AFTOX) and in Antoine Equation (Reid Equation 3) are corresponding to different pressure and temperature unit
  - If there are decimal points in the humidity value

Bug Fixes

- Fixed an issue with the shortcut that opens example projects
- Fixed a bug that caused the Help menu to be inaccessible through an existing project
- Fixed an issue with the calculation of liquid heat capacity for mixtures
- Fixed an issue with the density of liquid stored at ambient temperature
- Fixed an issue with the vapor pressure for noncryogenic liquid pool
- Removed duplicate warning messages for missing chemical property parameters
- Fixed a bug that displayed the previous summary file when there were no results for the second model run
- Resolved an issue that caused the pressure display in the summary file to be set as 1 atm for an unconfined pool fire
- Fixed an issue that caused the spill date to not update after users change the Date and Time of the modeling scenario
- Fixed an issue with the Save Changes command that prevented saving changes to the Chemical Database

- Fixed a bug that caused issues when adding more than one new chemical in the Chemical Database
- Fixed a bug that would cause the user's Chemical Database to sometimes be removed when the software is uninstalled
- Fixed a bug that would prevent updating chemical names when users edit the Chemical Database
- Updated the liquid density in pool evaporation in the Chemical Database to use Fixed Value if all components of the mixture have fixed values
- Fixed an issue with time step calculation in the INPUFF model that caused an incorrect modeling output for the first time step
- Fixed a bug that prevented calculations for the maximum concentration at given height and time for buoyant plume in the AFTOX model
- Fixed several bugs in the evaporating pool calculation through Source Term Wizard in the AFTOX model
- Resolved a bug that displayed the calculated chemical quantity in a pipe for an unlimited supply source in the Source Term Wizard as zero for the AFTOX model
- Fixed an issue that displayed the wrong vapor pressure when not using a fixed value and caused the calculated emission rate in the Source Term Wizard to be set as zero

- Fixed the bug that displayed the wrong Richardson number for certain pressurized pipe releases in the Source Term Wizard
- Fixed an issue that previously prevented the final time and release time from being set as the same in the DEGADIS model for transient releases
- Corrected the release temperature of transient emission in the default last two lines in the DEGADIS model input file