

Chempak Property Database

Make Fluid
Property Data
Availability as
Dynamic as
Your Analyses.

Temperature [deg F]	Phase	Density [lbm/ft ³]	Temperature [deg F]	Density [lbm/ft ³]	Temperature [deg F]	Density [lbm/ft ³]
-10	Liquid	50.0000	0.000114277	0.000000000	21.2592	21.2594
-10	Liquid	50.0000	10.000000000	0.000000000	40.827400	40.8274
-10	Liquid	50.0000	20.000119000	0.000000000	40.357150	40.3572
-10	Gas	50.0000	0.000000000	0.000000000	0.176000	0.176000
-10	Gas	50.0000	0.000000000	0.000000000	0.148010	0.148010
-10	Gas	50.0000	0.000000000	0.000000000	0.122384	0.122384



Chempak Property Database

- Provides comprehensive thermo-physical properties on a wide range of fluids to AFT's family of software products
- Provides data on ~700 fluids for AFT Fathom™, and AFT Impulse™ with the ability to assemble non-reacting static mixtures
- Provides data on ~600 gases for AFT Arrow™ with the ability to model both static mixtures and dynamic mixing resulting from intersecting flow streams
- Fluids listed by up to 3 commonly used names
- Fluids listed by formula and chemical structure
- Sort on any of the identifiers

Properties:

- Bulk Modulus of Elasticity
- Compressibility Factor
- Critical Pressure
- Critical Temperature
- Enthalpy
- Entropy
- Internal Energy
- Isentropic Expansion Coefficient, Gamma
- Kinematic Viscosity
- Molecular Weight Phase
- Prandtl Number
- Pressure Quality
- Saturation Pressure
- Saturation Temperature
- Sonic Velocity
- Specific Heat, cp
- Specific Heat, cv
- Specific Volume
- Surface Tension
- Temperature Superheat /Subcooled
- Temperature
- Thermal Conductivity
- Viscosity
- Volume Expansivity

World Class Support

Your software includes one free year of product upgrades and technical support. Additionally, AFT offers a variety of training for all levels of knowledge.

**Training Seminars**

This classroom style setting accelerates your skills to be an analysis and simulation expert.

**Free Webinars**

Discuss products and solution-based uses. Recorded webinars are located on our website.

**Expert Assistance**

Have too many projects or need expert analysis? Extend your team with our Flow Expert Package.

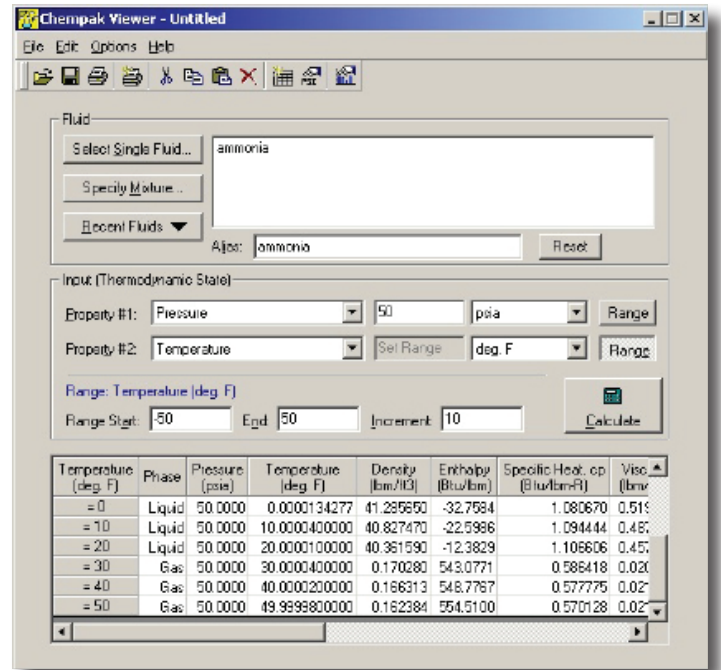
**Tips & Tricks**

Each month, an AFT engineer gives a new tip and trick to keep you up to date.

AFT Chempak Viewer

The viewer to access the Chempak Property Database as a stand-alone application is included for free in all AFT software

- Assemble non-reacting mixtures on a mass or mole basis
- Calculate fluid or mixture properties for any combination of the available input parameters as a single point, two point or a range of inputs
- Save or set your parameter and unit preferences as the default
- Save and reload input sets
- Save fluid and mixture sets for quick recall using the Recent Fluids list
- Specify a name for any fluid or mixture and it appears along with the standard Chempak name
- Change units 'on the fly' by double-clicking an output column header
- Input parameters:
 - Density
 - Enthalpy
 - Entropy
 - Internal Energy
 - Pressure
 - Quality
 - Saturated Liquid
 - Saturated Vapor
 - Specific Volume
 - Temperature



Output

- Chempak Viewer provides both text and graphical output
- Configure displayed parameters, display order and units
- Supports English and SI units
- Export as a PDF file or to a spreadsheet for additional calculations
- Select a portion of the output and paste into a spreadsheet
- Customize your graphs using colors, axis scale, titles, markers and more
- Use your graphs in other documents