

The SteamCalc Viewer is included for free in all AFT software.



## Steam/Water Properties:

- Bulk Modulus of Elasticity
- Density
- Entropy
- Compressibility Factor
- Enthalpy
- Internal Energy
- Kinematic Viscosity
- Isentropic Expansion Coefficient, Gamma
- Phase
- Pressure
- Prandtl Number
- Quality
- Saturation Temperature
- Sonic Velocity
- Specific Heat, cp
- Specific Volume
- Specific Heat, cv
- Temperature Subcool
- Temperature Superheat
- Thermal Conductivity
- Temperature
- Viscosity

Temperature (deg F)	Phase	Pressure (psia)	Temperature (deg F)	Density (lbm/ft <sup>3</sup> )	Entropy (Btu/lbm)	Specific Heat cp (Btu/lbm-F)	Viscosity (lbm/ft-sec)	Thermal Cond. (Btu/h-ft-F)
= 200	Liquid	100.000	200.000	80.138108	168.300	1.004904	0.7325016	0.3903049
= 225	Liquid	100.000	225.000	59.513746	193.473	1.009124	0.6334978	0.3953873
= 250	Liquid	100.000	250.000	58.835256	218.785	1.014381	0.5561280	0.3955225
= 275	Liquid	100.000	275.000	58.103872	244.203	1.020831	0.4947043	0.3961638
= 300	Liquid	100.000	300.000	57.319600	269.818	1.028634	0.4450730	0.3955759
= 325	Liquid	100.000	325.000	56.480737	295.648	1.038059	0.4043173	0.3937750
= 350	Gas	100.000	350.000	0.217754	1200.440	0.566972	0.0363031	0.0192960
= 375	Gas	100.000	375.000	0.209808	1214.319	0.545282	0.0377214	0.0197624
= 400	Gas	100.000	400.000	0.202602	1227.768	0.531385	0.0391401	0.0203328
= 425	Gas	100.000	425.000	0.195999	1240.820	0.521440	0.0405584	0.0209757
= 450	Gas	100.000	450.000	0.189905	1253.361	0.514206	0.0419798	0.0216709
= 475	Gas	100.000	475.000	0.184248	1265.647	0.508950	0.0434004	0.0224026
= 500	Gas	100.000	500.000	0.178970	1279.321	0.505192	0.0448218	0.0231712

Property Source: ASME Steam Tables (IAPWS-IF97)

## 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.



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AFT SteamCalc Viewer provides three ways to calculate steam and water properties from a broad range of input parameters:

- **Single Point** - properties calculated at a single point
- **Two Points** - the difference in value between the two inputs for all selected output parameters
- **Range** - properties calculated over a range of points based on two inputs. The first input is a single value and the second input includes a start value, end value and increment. The output displays properties for each increment over the range. Range output may also be graphed.

Parameter	Value
Phase	Gas
Pressure (psia)	100.000
Temperature (deg. F)	400.000
Density (lbm/ft3)	0.202602
Enthalpy (Btu/lbm)	1227.77
Specific Heat, cp (Btu/lbm-R)	0.531365
Viscosity (lbm/hr-ft)	0.0391401
Thermal Cond. (Btu/hr-ft-R)	0.0203328
Quality (Percent)	N/A

Quality (Percent)	Phase	Pressure (psia)	Density (lbm/ft3)	Enthalpy (Btu/lbm)
= 0	Saturated Liquid	250.0	53.6116	376.2
= 20	Saturated	250.0	2.6062	541.2
= 40	Saturated	250.0	1.3356	706.3
= 60	Saturated	250.0	0.8978	871.4
= 80	Saturated	250.0	0.6762	1036.5
= 100	Saturated Vapor	250.0	0.5423	1201.6

## Output

- Configure parameters displayed, display order and number of digits
- Supports English and SI units
- Save or set your parameter and unit preferences as the default
- Save and reload input sets
- Customize your graphs using colors, axis scale, titles, markers and more
- Use your graphs in other documents

