Steam Properties (IAPWS-IF97)

11/10/2026

Project: steam-properties

Input Parameters

Absolute pressure	10.000 bar
Temperature	250.00 °C

Calculated Results

State	Superheated steam
Saturation temperature at p	179.89 °C
Degree of superheat	70.114 K
Specific enthalpy	2,943.2 kJ/kg
Specific entropy	6.9266 kJ/(kg·K)
Specific volume	0.23274 m^3/kg
Density	4.2967 kg/m^3
Specific heat capacity	2.2116 kJ/(kg·K)
Dynamic viscosity	1.8058e-05 Pa·s
Kinematic viscosity	4.2029e-06 m^2/s
Thermal conductivity	0.040456 W/(m·K)
Prandtl number	0.98720
Speed of sound	550.11 m/s