

# Experimental Results - Temperature vs Pressure

Temperature (°C)	Pressure (kPa)	Volume (L)	Density (kg/m³)	Notes
20.0	101.3	1.000	1.204	Standard conditions
25.0	101.3	1.025	1.184	Room temperature
30.0	101.3	1.050	1.165	Warm conditions
35.0	101.3	1.075	1.147	Hot conditions
40.0	101.3	1.100	1.130	Very hot
45.0	101.3	1.125	1.113	Extreme heat
50.0	101.3	1.150	1.097	Maximum tested

$PV = nRT$  (Ideal Gas Law)