

Example Table: Densities and Speeds of Sound

Table 1. Experimental Values of Density ρ and Speed of Sound c for Glyglyglyline peptide (1) in the Solvent {Water (2) + Glucose (3)} as a Function of Temperature T , Mass Fraction of Solvent Component w , Molality of Solute m , at Pressure $p = 0.1$ MPa ^a

T/K	w_3	m_1	$\rho/\text{kg}\cdot\text{m}^{-3}$	$c/\text{m}\cdot\text{s}^{-1}$
288.15	0.0591	0.00000	1022.2	1490.0
288.15	0.0591	0.04088	1025.3	1494.5
288.15	0.0591	0.04989	1026.0	1495.5
288.15	0.0591	0.07945	1028.2	1498.6
288.15	0.0591	0.08861	1028.9	1499.7
288.15	0.0591	0.09872	1029.7	1500.7
293.15	0.0591	0.00000	1021.1	1505.1
293.15	0.0591	0.04088	1024.2	1509.5
293.15	0.0591	0.04989	1024.9	1510.4
293.15	0.0591	0.07945	1027.1	1513.5
293.15	0.0591	0.08861	1027.8	1514.5
293.15	0.0591	0.09872	1028.5	1515.6
298.15	0.0591	0.00000	1019.8	1518.4
298.15	0.0591	0.04088	1022.9	1522.6
298.15	0.0591	0.06001	1024.3	1524.5
298.15	0.0591	0.07945	1025.7	1526.5
298.15	0.0591	0.08861	1026.4	1527.5
298.15	0.0591	0.09872	1027.1	1528.6
303.15	0.0591	0.00000	1018.3	1529.9
303.15	0.0591	0.04989	1022.0	1534.8
303.15	0.0591	0.06001	1022.7	1535.8
303.15	0.0591	0.07200	1023.6	1537.0
303.15	0.0591	0.08861	1024.8	1538.7
303.15	0.0591	0.09872	1025.5	1539.8
308.15	0.0591	0.00000	1016.5	1539.5
308.15	0.0591	0.04989	1020.2	1544.3
308.15	0.0591	0.06001	1021.0	1545.2
308.15	0.0591	0.07200	1021.8	1546.4
308.15	0.0591	0.07945	1022.4	1547.2
308.15	0.0591	0.09872	1023.8	1549.0

^a Standard uncertainties are $u(T) = 0.01$ K, $u(p) = 10$ kPa, $u(w_3) = 0.0001$, $u(m_1) = 0.00002$.
Expanded uncertainties are $U_c(\rho) = 0.2$ kg·m⁻³ and $U_c(c) = 0.5$ m·s⁻¹ (0.95 level of confidence).