	Molecular Mass	Solvent-Excluded	Partial Specific Volume, \bar{V} (mL/g)		
	(Da)	Volume (Å ³)	Calculated	Experimental	Voronoi ^d
Ribosome	1,340,664	1,395,480	0.627	0.592a	0.617
RNA	931,319	867,245	0.561	0.540^{b}	0.569
Protein	409,345	498,025	0.733	0.726 ^c	0.728

Table 3.3: Partial specific volumes of the ribosomal components. Experimental values from a van Holde & Hill (1974) for the *E. coli* 50S ribosome, b Durchschlag (1986) for polynucleotides, and c Cohn & Edsall (1943) based on amino acid composition. d Voronoi partial specific volume is calculated based on average RNA atomic volumes reported in Chapter 2, page 36 and protein atomic volumes from Tsai et al. (2001).