Using molecular-dynamics simulation, we determine the magnitude and anisotropy of the kinetic coefficient μ for the crystal growth from the melt for the hard-sphere system through an analysis of equilibrium capillary fluctuation in interfacial height. We find $\mu_{100} = 1.44(7)$, $\mu_{110} = 1.10(5)$ and $\mu_{111} = 0.64(3)$ in units of $\sqrt{k_{B/(mT_m)}}$, where k_B is Boltzmann's constant, m is the particle mass, and T_m is the melting temperature. These Values are shown to be consistent, with some exceptions, with those obtained in recent simulation results a variety of fcc metals, when expressed in hard-sphere units. This suggests that the kinetic coefficient for fcc metals can be roughly estimated from $C\sqrt{R/(MT_m)}$, where R is the gas constant, M is the molar mass, and C is a constant that varies with interfacial orientation.