

TABLE 1: Thermophysical properties of base fluid and nanoparticles.

Property	Water	Cu
ρ (kg/m ³)	997.1	8933
c_p (J/kg K)	4179	385
k (W/m K)	0.613	401
$\alpha \times 10^7$ (m ² /s)	1.47	1163.1
β (K ⁻¹) $\times 10^5$	27.6	5.1

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Brendan G. Carr



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