The St. Petersburg Paradox

Flip a coin. If you flip tails, the game is over and you have won nothing.
If you flip heads, put a dollar in the pot and flip the coin again. If it is tails, you win the dollar and the game is over.
If it is heads again, double the money in the pot and flip the coin again. Repeat this step, doubling the pot each time you flip heads. The game is over as soon as you flip tails, at which point you win whatever is currently in the pot.

How much money would you be willing to pay to play this game?

Notes: