Simpson's 3/8 Rule

Simpson's $3/8$ rule has elementary formula given by

$$\int_0^{3h} f(x)\,dx = \frac{3h}{8}\left(f(0) + 3f(h) + 3f(2h) + f(3h)\right).$$

Suppose that $f(x)$ is known at the equally spaced points $a = x_0, x_1, \ldots, x_n = b$, and n is a multiple of three. Let $f_i = f(x_i)$ and $h = x_{i+1} - x_i$. Find the formula for the composite Simpson's $3/8$ rule.