$$\alpha_{t} = \frac{1}{2} \ln \left(\epsilon + \sum_{i: h_{t}(x_{i})=1, y_{i}=1} w_{i}^{t} \right) / \left(\epsilon + \sum_{i: h_{t}(x_{i})=1, y_{i}=-1} w_{i}^{t} \right)$$