$$E = MW_{HAP}\left[N_{avg}\ln\left[\frac{P_T - \sum_{i=1}^{n}\left(P_{i,1}\right)}{P_T - \sum_{i=1}^{n}\left(P_{i,2}\right)}\right] - \left(n_{i,2} - n_{i,1}\right)\right] \qquad \text{(Eq. 6)}$$