Expected heterozygosity ($H_E$) for $n$ alleles
\[ H_E = 1 - \sum_{i=1}^{n} (p_i \sum_{i=1}^{n} (p_i)^2) \]
(Where $p_i$ = frequency of $i$th allele of $n$ alleles)

Maximum expected heterozygosity ($H_{E, Max}$) will be when alleles are equally frequent (i.e., $p_i = 1/n$) in a population
Then,
\[ H_{E, Max} = 1 - (n(1/n)^2) \]
\[ = 1 - (1/n) \]