Hydrogen Index

HI shows the volumetric concentration of hydrogen atoms in the substance normalized to the volumetric hydrogen concentration of water in standard conditions:

$$HI = \frac{9\, n_H\, A_H}{\sum_i n_i\, A_i} \cdot \rho_B$$

where

ρ_B	rock density
n_H	number of hydrogen atoms in molecule
A_H	atomic mass of hydrogen in molecule
n_i	number of i-th type of atoms in molecule
A_i	atomic mass of i-th type of atoms in molecule

For water in standard condition is **HI** =1.