

Hop Acid Addition Calculation

Tetralone addition post fermentation

Organoleptic BU target in final beer from post fermentation Tetra addition = 7 BU's

1 ppm Tetra gives 1.7 organoleptic bitter units compared to iso-alpha acids, so Tetra in final beer =

4.3 ppm tetra-hydroisoalpha acids (by HPLC)
(typically, brewers target 2 - 5 ppm tetra-hydroisoalpha acids in final beer for beer foam enhancement, above 7 ppm the foam becomes un-natural)

Utilization of Tetra from post fermentation to final beer (estimate) = 90%

Amount of tetra-hydroiso alpha acids to add post fermentation = 4.7 ppm (mg/l) tetra-hydroisoalpha acids

% tetra-hydroiso alpha acids in Tetralone hop product = 9.5% concentration of tetra-hydroisoalpha acids in Tetralone (by HPLC)

Amount of Tetralone hop product to add post fermentation = 49.9 ppm (mg/l) Tetralone hop product

= 4.99 grams Tetralone added post fermentation / hl finished beer
