ASBC Approved Methods Beer - 10A

A. Spectrophotometric color method.

Report beer color as degrees to one decimal place.

Beer color = $10 (A\frac{1}{2})$, 430 nm

Spectrophotometric Color Method	
Absorbance in 10 mm square cuvet at 430 Absorbance in 10 mm square cuvet at 700 Conversion factor 10 mm to ½ inch thick	
Result	
Beer color	
Absorbance of beer sample in a 10 mm square cuvet (inside) is 0.31 at 430 nm and 0.01 at 700 nm. Conversion factor 10 mm to $\frac{1}{2}$ in. thickness = 1.27. ($\frac{A}{2}$, 430 nm) = 1.27 × 0.31 = 0.394; 0.039 × 0.394 = 0.0154. ($\frac{A}{2}$, 700 nm) = 1.27 × 0.01 = 0.0127. Since 0.0127 is less than 0.0154, beer sample is "free of turbidity" and, Beer color = 10 × 0.394	
= 3.94 or 3.9°.	