

$$^{\circ}\text{Oe} = [(S.G.(20/20)) - 1] \times 1000$$

$^{\circ}\text{Klosterneuburger Mostwaage}$ ($^{\circ}\text{KMW}$) is used in Austria to measure the sugar content of must. $^{\circ}\text{KMW}$ is related to $^{\circ}\text{Oe}$ by the following equation:

$$^{\circ}\text{Oe} = ^{\circ}\text{KMW} \times [(0.022 \times ^{\circ}\text{KMW}) + 4.54]$$

1 $^{\circ}\text{KMW}$ is roughly equivalent to 1% Brix or 5 $^{\circ}\text{Oe}$. $^{\circ}\text{KMW}$ is also known as $^{\circ}\text{Babo}$.

“Potential” or “probable” alcohol is an estimation of the alcohol content (% vol/vol) in finished wine based on the conversion between sugar and alcohol. This conversion depends on many factors, such as the type of grapes, the grape maturity, the growing region and yeast fermentation efficiency and temperature.

The **HI96813** allows the user to tailor the instrument to their specific needs based on their experience, since no fixed conversion factor is universally applicable. The first conversion is based on the % Brix value and an adjustable conversion factor between 0.50 and 0.70 (0.55 is a common value).

$$\text{Potential alcohol (\% v/v)} = (0.50 \text{ to } 0.70) \times \% \text{ Brix}$$

One drawback of the above equation is that it does not take into account the nonfermentable sugars and extract. A second equation was also added that takes these factors into account and can give a more accurate estimate of the alcohol content in the finished wine. This conversion is named “C1” on the meter, and uses the following equation:

$$\text{Potential Alcohol (\%V/V)} = 0.059 \times [(2.66 \times ^{\circ}\text{Oe}) - 30] \text{ (C1)}$$

The HI96816 potential alcohol curve is based on the tables found in the European Economic Community Commission Regulation No 2676/90 of September 17, 1990, Determining Community Methods for the Analysis of Wine and International Organization of Vine and Wine (OIV). The potential alcohol curve is based on the following equation:

$$\text{Potential alcohol (\%v/v)} = \text{g/L of Sugar} / 16.83$$



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Specifications	HI96811	HI96812	HI96813	HI96814	HI96816	
Sugar Content	Range	0 to 50% Brix	0 to 28°Baumé	0 to 50% Brix; to 25% V/V Potential Alcohol	0 to 50% Brix; 0 to 230°Oechsle; 0 to 42°KMW	4.9 to 56.8% V/V potential alcohol; (10 to 75% Brix)*
	Resolution	0.1% Brix	0.1°Baumé	0.1% Brix; 0.1% V/V Potential Alcohol	0.1% Brix; 1°Oechsle 0.1°KMW	0.1 %V/V Potential Alcohol
	Accuracy (@25°C/77°F)	±0.2% Brix	±0.1°Baumé	±0.2% Brix; ±0.2 %V/V Potential Alcohol	±0.2% Brix; 1°Oechsle ±0.2°KMW	±0.2 %V/V Potential Alcohol
Temperature	Range	0 to 80°C (32 to 176°F)				
	Resolution	0.1°C (0.1°F)				
	Accuracy (@25°C/77°F)	±0.1°C (±0.5°F)				
Additional Specifications	Temperature Compensation	Automatic between 10 and 40°C (50 to 104°F)				
	Measurement Time	approximately 1.5 seconds				
	Minimum Sample Volume	100 μL (to cover prism totally)				
	Light Source	yellow LED				
	Sample Cell	stainless steel ring and flint glass prism				
	Auto-off	after three minutes of non-use				
	Enclosure Rating	IP65				
Battery Type / Battery Life	9V / approximately 5000 readings					
Dimensions / Weight	192 x 102 x 67 mm (7.6 x 4.01 x 2.6") / 420 g (14.8 oz.)					
Ordering Information	HI96811, HI96812, HI96813, HI96814 and HI96816 are supplied with battery and instruction manual.					

* hidden range

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