AB 5360

Rev. 1

OenoFoss™ Go

Grape Must

This Application Brief describes the product type 'grape must' and selected parameters for this product type, available with the OenoFoss Go.

Grape Must

In the wine industry, the understanding of grape must is the juice from freshly crushed berries including skin, seed and pulp materials (all solids called the pomace). The must application for OenoFoss Go require a clean juice thus the pomace need to be removed from the must prior to analysis. Thus the must should be filtered.

OenoFoss Go

OenoFoss Go is part of the FOSS wine analysis family. The main technique used for all members in the family is infrared spectroscopy – The FTIR technology. Through mathematical modelling of the infrared spectra's, the concentration of wine constituents can be determined. For each parameter in OenoFoss Go there is a prediction model calculating the results. The parameters included for grape must are: ethanol, glucose plus fructose, malic acid, total acidity and volatile acidity.

The prediction models listed in the overview below has been developed to match the OenoFoss Go software version 1.0.1.1 and newer versions.

Prediction Model Overview

| Parameter | Prediction Model | | | | | | | Comments |
| | Name | P/N | Version | Units | Performance | | | |
					Range	Rep. [1]	Acc. [2]	
Total soluble solids (Brix)	Brix Must	60087603	1.0.0.1	g/100g	12-27	0.1	0.45	Total Soluble Solids are based of refraction index and calculated to common expressions - ie. Brix.
Malic acid	MalicAcid Must	60087604	1.0.0.1	g/l	1-8	0.1	0.4	
Total acidity	TotalAcidity pH 7.0 H2SO4Must	60087605	1.0.0.1	g/l	2-12	0.05	0.3	Expressed as tartaric acid
	TotalAcidity pH7.0 Tartaric Must	60089167	1.0.0.1	g/l	3-18	0.08	0.46	Expressed as tartaric acid
Yeast assimilable nitrogen	YeastAssimilableNitrogen Must	60087607	1.0.0.1	-	Low; Medium; High	NA	NA	Level indications. Medium correspond to approximative 200-300 mg/l. Low is approximate below. High is approximate beyond.

[1] The absolute repeatability in corresponding unit. The repeatability expressed as pooled standard deviation of replicate.

[2] The absolute accuracy in corresponding unit. The accuracy is expressed as Standard Error of Prediction (SEP).

Table 1   Overview of prediction model information