

# Reagecon

## Nonalcoholic Beverages & Concentrates



### Beverage Standards

# Reagents and Standards for the Non Alcoholic Beverages and Fruit Juices Industry



As per Official Methods of Analysis of AOAC International, 19th Edition, 2012 Volume 2. Dr George W. Latimer, Jr.

## AOAC Official Method 979.08 Benzoate, Caffeine, and Saccharin in Carbonated Beverages

Chapter	Product No.	Description	Pack Size
29.1.14A.b	CH3C00H201	Acetic Acid, CH <sub>3</sub> COOH, 20% v/v	1L

## AOAC Official Method 967.21 Ascorbic Acid in Vitamin Preparations and Juices

Chapter	Product No.	Description	Pack Size
45.1.14.B.d	TB04F	Indicator Thymol Blue Alcoholic Sol. 0.04%	500ml

## AOAC Official Method 940.26 Ash of Fruits and Fruit Products

Chapter	Product No.	Description	Pack Size
37.1.18.B	H20101	Analytical Volumetric Solution Hydrochloric Acid 0.1N, 0.1M	1L
37.1.18.B	S20101	Analytical Volumetric Solution Sodium Hydroxide 0.1N, 0.1M	1L

## AOAC Official Method 967.22 Vitamin C (Total) in Vitamin Preparations

Chapter	Product No.	Description	Pack Size
45.1.15B.d	TB04F	Indicator Thymol Blue Alcoholic Sol. 0.04%	500ml

## Reagecon's Colour Standards

### ASTM Colour Standards

Product No.	Description	Colour	APHA, ACS and ASTM Methods to include the following	Pack Size
ASTMA101	ASTM Colour Standard Sample A1	1	D6045,D1500	100ml
ASTMA105	ASTM Colour Standard Sample A1	1	D6045,D1500	500ml
ASTMA301	ASTM Colour Standard Sample A3	3	D6045,D1500	100ml
ASTMA305	ASTM Colour Standard Sample A4	3	D6045,D1500	500ml
ASTMA501	ASTM Colour Standard Sample A5	5	D6045,D1500	100ml
ASTMA505	ASTM Colour Standard Sample A5	5	D6045,D1500	500ml
ASTMA701	ASTM Colour Standard Sample A7	7	D6045,D1500	100ml
ASTMA705	ASTM Colour Standard Sample A7	7	D6045,D1500	500ml

## Saybolt Colour Standards

Product No.	Description	Colour	APHA, ACS and ASTM Methods to include the following	Pack Size
SAYP301	Saybolt Colour +30	S+30	D6045	100ml
SAYP305	Saybolt Colour +30	S+30	D6045	500ml
SAYP251	Saybolt Colour +25	S+25	D6045	100ml
SAYP255	Saybolt Colour +25	S+25	D6045	500ml
SAYP191	Saybolt Colour +19	S+19	D6045	100ml
SAYP195	Saybolt Colour +19	S+19	D6045	500ml
SAYP151	Saybolt Colour +15	S+15	D6045	100ml
SAYP155	Saybolt Colour +15	S+15	D6045	500ml
SAYP121	Saybolt Colour +12	S+12	D6045	100ml
SAYP125	Saybolt Colour +12	S+12	D6045	500ml
SAYP01	Saybolt Colour +0	S0	D6045	100ml
SAYP05	Saybolt Colour +0	S0	D6045	500ml
SAYN151	Saybolt Colour -15	S-15	D6045	100ml
SAYN155	Saybolt Colour -15	S-15	D6045	500ml

## Platinum-Cobalt Colour Standards\* (Hazen)

Product No.	Description	Colour	APHA, ACS and ASTM Methods to include the following	Pack Size
HAZ0	Platinum-Cobalt Colour 0	0	D1209	1000ml
HAZ5	Platinum-Cobalt Colour 5	5	D1209	1000ml
HAZ10	Platinum-Cobalt Colour 10	10	D1209	1000ml
HAZ25	Platinum-Cobalt Colour 25	25	D1209	1000ml
HAZ40	Platinum-Cobalt Colour 40	40	D1209	1000ml
HAZ50	Platinum-Cobalt Colour 50	50	D1209	1000ml
HAZ80	Platinum-Cobalt Colour 80	80	D1209	1000ml
HAZ100	Platinum-Cobalt Colour 100	100	D1209	1000ml
HAZ250	Platinum-Cobalt Colour 250	250	D1209	1000ml
HAZ500	Platinum-Cobalt Colour 500	500	D1209	1000ml

\* Standards with intermediate Platinum-Cobalt values are available on request

## Gardner Colour Standards\*\*

Product No.	Description	Colour	APHA, ACS and ASTM Methods to include the following	Pack Size
GARD02	Gardner Colour 2	2	D6166	500ml
GARD021	Gardner Colour 2	2	D6166	100ml
GARD04	Gardner Colour 4	4	D6166	500ml
GARD041	Gardner Colour 4	4	D6166	100ml
GARD06	Gardner Colour 6	6	D6166	500ml
GARD061	Gardner Colour 6	6	D6166	100ml
GARD08	Gardner Colour 8	8	D6166	500ml
GARD081	Gardner Colour 8	8	D6166	100ml
GARD10	Gardner Colour 10	10	D6166	500ml
GARD101	Gardner Colour 10	10	D6166	100ml
GARD12	Gardner Colour 12	12	D6166	500ml
GARD121	Gardner Colour 12	12	D6166	100ml
GARD14	Gardner Colour 14	14	D6166	500ml
GARD141	Gardner Colour 14	14	D6166	100ml
GARD16	Gardner Colour 16	16	D6166	500ml
GARD161	Gardner Colour 16	16	D6166	100ml

\*\* Standards with intermediate Gardner values are available on request

## Reagents as Outlined in Chapter 2 of European Pharmacopeia

Product No.	Description	Pack Size
EPP0S01	Primary Opalescent Standard	100ml

## Colouration - Primary Solutions

Product No.	Description	Pack Size
EPBS01	EPBS01 Primary Blue Solution 100ml	100ml
EPRS01	EPRS01 Primary Red Solution 100ml	100ml
EPYS01	EPYS01 Primary Yellow Solution 100ml	100ml

## Standard Solutions

Product No.	Description	Pack Size
EP703	Standard Solution B (Brown)	100ml
EP704	Standard Solution BY (Brown/Yellow)	100ml
EP705	Standard Solution GY (Green/Yellow)	100ml
EP706	Standard Solution Y (Yellow)	100ml
EP707	Standard Solution R (Red)	100ml

## USP (631) Colour Standards

Product No.	Description	Pack Size
USPCS101	Cupric Sulfate CS	100ml
USPCS102	Ferric Chloride CS	100ml
USPCS103	Cobaltous Chloride CS	100ml

**AOAC Official Method 950.29 Sucrose in Nonalcoholic Beverages**  
**AOAC Official Method 950.30 Sugars (Reducing) in Nonalcoholic Beverages**  
**AOAC Official Method 950.31 Glucose (Commercial) in Nonalcoholic Beverages**  
**ISO Guide 34 Sucrose in Water standards- 12 Week Shelf Life**

Product No.	% Sucrose in water (w/w) @ 20°C	Nominal Brix % *	Nominal Refractive Index @ 20°C*	Pack size
BS00	0% Sucrose	0% Brix	1.332986	15ml
BS05	5% Sucrose	5% Brix	1.340264	15ml
BS07	7% Sucrose	7% Brix	1.343253	15ml
BS10	10% Sucrose	10% Brix	1.347824	15ml
BS112	11.2% Sucrose	11.2% Brix	1.349682	15ml
BS115	11.5% Sucrose	11.5% Brix	1.350149	15ml
BS12	12% Sucrose	12% Brix	1.350930	15ml
BS125	12.5% Sucrose	12.5% Brix	1.351714	15ml
BS15	15% Sucrose	15% Brix	1.355679	15ml
BS20	20% Sucrose	20% Brix	1.363842	15ml
BS25	25% Sucrose	25% Brix	1.372328	15ml
BS30	30% Sucrose	30% Brix	1.381149	15ml
BS35	35% Sucrose	35% Brix	1.390322	15ml
BS40	40% Sucrose	40% Brix	1.399860	15ml
BS45	45% Sucrose	45% Brix	1.409777	15ml
BS50	50% Sucrose	50% Brix	1.420087	15ml
BS55	55% Sucrose	55% Brix	1.430800	15ml
BS60	60% Sucrose	60% Brix	1.441928	15ml
*The nominal Brix and Refractive Index values are taken from the ICUMSA published tables				





















