

## Sugars



## Food Standards

# Reagents and Standards for The Sugar Industry



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

## AOAC Official Method 906.03 Invert Sugar in Sugars and Syrups

Chapter	Product No.	Description	Pack Size
44.1.16A.c	S21001	Analytical Volumetric Solution Sodium Hydroxide 1.0N, 1.0M	1L

## AOAC Official Method 988.12 Dextran in Raw Cane Sugar

Chapter	Product No.	Description	Pack Size
44.1.30C.d	S22501	Analytical Volumetric Solution Sodium Hydroxide 2.5N, 2.5M	1L
44.1.30C.j	SU21001	Analytical Volumetric Solution Sulphuric Acid 2.0N, 1.0M	1L

## AOAC Official Method 954.11 Separation of Sugars in Honey

Chapter	Product No.	Description	Pack Size
44.4.11F	T20051	Analytical Volumetric Solution Sodium Thiosulphate 0.05N, 0.05M	1L

## AOAC Official Method 979.21 Separation of Sugars in Honey

Chapter	Product No.	Description	Pack Size
44.4.12B.b	DBC06-960	Dissolution Media Acetate Buffer pH 4.5 Concentrate (Dilute to 25L) (6x961.5ml)	6X 1L

## AOAC Official Method 959.13 Malic Acid in Maple Syrup

Chapter	Product No.	Description	Pack Size
44.5.13B.d	SC20501	Analytical Volumetric Solution Sodium Carbonate 1.0N, 0.5M	1L

## AOAC Official Method 968.29 Yeast Count for Maple Syrup

Chapter	Product No.	Description	Pack Size
44.5.15C.a	S21001	Analytical Volumetric Solution Sodium Hydroxide 1.0N, 1.0M	1L

## AOAC Official Method 997.15 Lead in Sugars and Syrups

Chapter	Product No.	Description	Pack Size
9.2.20A.C.	N5WV1	Nitric Acid 5% w/v	1L
9.2.20A.C.	N5WV2	Nitric Acid 5% w/v	1L

## AOAC Official Method 958.09 Diastatic Activity of Honey

Chapter	Product No.	Description	Pack Size
44.4.19C.e	1085103	European Pharmacopoeia Reagent Starch Solution	100ml

# Reagecon's Brix Standards

## 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

# Reagecon's Refractive Index Standards

## Refractive Index Standards - Stabilised Sucrose - 1 Year Shelf Life

Product No.	Description (20°C)	Nominal Refractive Index @ 20°C*	Pack size
RIBS07S	Refractive Index @ 20°C	1.34325	15ml
RIBS10S	Refractive Index @ 20°C	1.34782	15ml
RIBS112S	Refractive Index @ 20°C	1.34968	15ml
RIBS115S	Refractive Index @ 20°C	1.35015	15ml
RIBS12S	Refractive Index @ 20°C	1.35093	15ml
RIBS125S	Refractive Index @ 20°C	1.35171	15ml
RIBS15S	Refractive Index @ 20°C	1.35568	15ml
RIBS20S	Refractive Index @ 20°C	1.36384	15ml
RIBS25S	Refractive Index @ 20°C	1.37233	15ml
RIBS30S	Refractive Index @ 20°C	1.38115	15ml
RIBS35S	Refractive Index @ 20°C	1.39032	15ml
RIBS40S	Refractive Index @ 20°C	1.39986	15ml
RIBS45S	Refractive Index @ 20°C	1.40978	15ml
RIBS50S	Refractive Index @ 20°C	1.42009	15ml
RIBS55S	Refractive Index @ 20°C	1.43080	15ml
RIBS60S	Refractive Index @ 20°C	1.44193	15ml

\* The nominal Refractive Index value is taken from the ICUMSA published tables

## Refractive Index Standards - Stabilised Sucrose - 1 Year Shelf Life

Product No.	Description (20°C)	Nominal Refractive Index @ 20°C*	Pack size
RIBS07S6	Refractive Index @ 20°C	1.34325	6 x 15ml
RIBS10S6	Refractive Index @ 20°C	1.34782	6 x 15ml
RIBS112S6	Refractive Index @ 20°C	1.34968	6 x 15ml
RIBS115S6	Refractive Index @ 20°C	1.35015	6 x 15ml
RIBS12S6	Refractive Index @ 20°C	1.35093	6 x 15ml
RIBS125S6	Refractive Index @ 20°C	1.35171	6 x 15ml
RIBS15S6	Refractive Index @ 20°C	1.35568	6 x 15ml
RIBS20S6	Refractive Index @ 20°C	1.36384	6 x 15ml
RIBS25S6	Refractive Index @ 20°C	1.37233	6 x 15ml
RIBS30S6	Refractive Index @ 20°C	1.38115	6 x 15ml
RIBS35S6	Refractive Index @ 20°C	1.39032	6 x 15ml
RIBS40S6	Refractive Index @ 20°C	1.39986	6 x 15ml
RIBS45S6	Refractive Index @ 20°C	1.40978	6 x 15ml
RIBS50S6	Refractive Index @ 20°C	1.42009	6 x 15ml
RIBS55S6	Refractive Index @ 20°C	1.43080	6 x 15ml
RIBS60S6	Refractive Index @ 20°C	1.44193	6 x 15ml

\* The nominal Refractive Index value is taken from the ICUMSA published tables for all product numbers except BS67S (Brix Value 67.5%) which is a measured value.

## Solvent Based Refractive Index Standards - 2 Year Shelf Life

Product No.	Description (20°C)	Nominal Refractive Index @ 20°C	Pack size
RI0138	Refractive Index @ 20°C	1.38779	15ml
RI0140	Refractive Index @ 20°C	1.40485	15ml
RI0142	Refractive Index @ 20°C	1.42345	15ml
RI0144	Refractive Index @ 20°C	1.44468	15ml
RI0146	Refractive Index @ 20°C	1.46768	15ml
RI0149	Refractive Index @ 20°C	1.49672	15ml
RI0150	Refractive Index @ 20°C	1.50044	15ml
RI0151	Refractive Index @ 20°C	1.51726	15ml
RI0154	Refractive Index @ 20°C	1.53660	15ml
RI0165	Refractive Index @ 20°C	1.65808	15ml

## Solvent Based Refractive Index Standards - 2 Year Shelf Life

Product No.	Description (20°C)	Nominal Refractive Index @ 20°C	Pack size
RI01386	Refractive Index @ 20°C	1.38779	6 x 15ml
RI01406	Refractive Index @ 20°C	1.40485	6 x 15ml
RI01426	Refractive Index @ 20°C	1.42340	6 x 15ml
RI01446	Refractive Index @ 20°C	1.44468	6 x 15ml
RI01466	Refractive Index @ 20°C	1.46768	6 x 15ml
RI01496	Refractive Index @ 20°C	1.49672	6 x 15ml
RI01506	Refractive Index @ 20°C	1.50044	6 x 15ml
RI01516	Refractive Index @ 20°C	1.51726	6 x 15ml
RI01546	Refractive Index @ 20°C	1.53660	6 x 15ml
RI01656	Refractive Index @ 20°C	1.65808	6 x 15ml

# Reagecon's Conductivity Standards

Product No.	Description	Pack Size
CSKC13	1.30µS/cm @ 25°C	250ml
CSKC136	1.30µS/cm @ 25°C	6x250ml
CSKC3	3µS/cm @ 25°C	250ml
CSKC5	5µS/cm @ 25°C	500ml
CSKC10	10µS/cm @ 25°C	500ml
CSKC20	20µS/cm @ 25°C	500ml
CSKC238	23.8µS/cm @ 25°C	500ml
CSKC25	25µS/cm @ 25°C	500ml
CSKC50	50µS/cm @ 25°C	500ml
CSKC84	84µS/cm @ 25°C	500ml
CSKC100	100µS/cm @ 25°C	500ml
CSKCS	147µS/cm @ 25°C	500ml
CSKC150	150µS/cm @ 25°C	500ml
CSKC185	185µS/cm @ 25°C	500ml
CSKC200	200µS/cm @ 25°C	500ml
CSKC250	250µS/cm @ 25°C	500ml
CSKC300	300µS/cm @ 25°C	500ml
CSKC400	400µS/cm @ 25°C	500ml
CSKC500	500µS/cm @ 25°C	500ml
CSKC718	718µS/cm @ 25°C	500ml
CSKC1000	1000µS/cm @ 25°C	500ml
CSKCL	1413µS/cm @ 25°C	500ml
CSKC2M	2000µS/cm @ 25°C	500ml
CSKC2500	2500µS/cm @ 25°C	500ml
CSKC3M	3000µS/cm @ 25°C	500ml
CSKC5M	5,000µS/cm @ 25°C	500ml
CSKC7M	7,000µS/cm @ 25°C	500ml
CSKC10M	10,000µS/cm @ 25°C	500ml
CSKC12880	12,880µS/cm @ 25°C	500ml
CSKC20M	20,000µS/cm @ 25°C	500ml
CSKC30M	30,000µS/cm @ 25°C	500ml
CSKC40M	40,000µS/cm @ 25°C	500ml
CSKC50M	50,000µS/cm @ 25°C	500ml
CSKC60M	60,000µS/cm @ 25°C	500ml
CSKC80M	80,000µS/cm @ 25°C	500ml
CSKC100M	100,000µS/cm @ 25°C	500ml
CSKC111800	111,800µS/cm @ 25°C	500ml
CSKC150M	150,000µS/cm @ 25°C	500ml
CSKC200M	200,000µS/cm @ 25°C	500ml
CSKC300M	300,000µS/cm @ 25°C	500ml
CSKC350M	350,000µS/cm @ 25°C	500ml
CSKC400M	400,000µS/cm @ 25°C	500ml
CSKC450M	450,000µS/cm @ 25°C	500ml
CSKC500M	500,000µS/cm @ 25°C	500ml