AG Calibration Fluids

EQUIVALENT SCALE VALUES

Bellingham + Stanley

a xylem brand

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All conversions in the tables below are valid only for measurements at 20.0°C.

°Brix to Refractive Index conversions are performed in accordance with ICUMSA, Methods Book, SPS-3 (2000), page 3, Formula (1).

Conversions from Refractive Index to the remaining scales were determined using B+S User Defined Scale Data. Where no data is given (indicated by -----), the calculated value lies outside the range of the original source data used to determine the relationship between refractive index and the scale. Consequently, the accuracy of the conversion at this point in the range cannot be guaranteed and the value has been omitted.

Calibration Sample	°Brix	R.I.	Zeiss	°Oechsle (Swiss)	°Oechsle (German)
AG2.5	2.50	1.33659	23.80	-----	-----
AG5	5.00	1.34026	33.42	-----	-----
AG7.5	7.50	1.34401	43.35	-----	-----
AG10	10.00	1.34782	53.55	40.01	42.36
AG11.2	11.20	1.34968	58.57	45.01	47.27
AG12.5	12.50	1.35171	64.08	50.46	52.63
AG15	15.00	1.35568	74.96	61.11	63.10
AG40	40.00	1.39986	-----	-----	-----

Calibration Sample	42% Fructose (% w/w)	55% Fructose (% w/w)	90% Fructose (% w/w)	°Baumé	Sodium Chloride (% w/w)
AG2.5	2.52	2.52	2.53	1.40	2.06
AG5	5.03	5.04	5.07	2.79	4.15
AG7.5	7.56	7.57	7.60	4.18	6.29
AG10	10.07	10.08	10.13	5.57	8.46
AG11.2	11.28	11.30	11.35	6.24	9.52
AG12.5	12.59	12.61	12.66	6.96	10.67
AG15	15.12	15.14	15.20	8.34	12.91
AG40	40.52	40.54	40.62	21.97	-----

Calibration Sample	Glucose (% w/w)	Fructose (% w/w)	Invert Sugar (% w/w)	Probable Alcohol (% vol.)	Urine Solids, Cat (SG)	°KMW (Babo)
AG2.5	2.51	2.53	2.52	-----	1.009	2.13
AG5	5.02	5.05	5.04	-----	1.017	4.25
AG7.5	7.54	7.59	7.56	-----	1.026	6.37
AG10	10.05	10.12	10.09	4.91	1.035	8.48
AG11.2	11.26	11.34	11.30	5.66	1.039	9.50
AG12.5	12.57	12.65	12.62	6.49	1.044	10.60
AG15	15.10	15.19	15.15	8.10	1.054	12.72
AG40	40.57	40.66	40.61	25.84	-----	-----

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