



A NEW LINE OF PRODUCTS AND SERVICES for Quality Assurance Laboratories



To better serve our customers, SPRANA has invested in a state-of-the-art standards laboratory to produce highly accurate, and reliable calibration fluids.

We now offer certified standards of:

Urea solutions,

Urea Ammonium Nitrate (UAN),

Diesel Exhaust Fluid (DEF/AdBlue®).

The accuracy of the concentrations of the components in the prepared standards is **1 part per million (0.0001 % wt.)**, including precise density, refractive index and pH values.

Liquid standards are used for a routine check of the accuracy/error of your laboratory analysis, whether it's for product quality assurance, cross-checks, process control or research, as well as for calibration.



The standards are prepared and analysed with the best-in-class laboratory equipment and every batch of standards are validated with strict certification process by FMTC- Lithuanian Center for Physical Sciences and Technology with LC-MS method.

**We use our partner Stamicarbon B.V. license for using trademark AdBlue®.*

EXAMPLES OF THE CERTIFIED LIQUID STANDARDS

UREA SOLUTION, 40%

TEST ITEM	SPECIFICATION	GRAVIMETRIC METHOD	Tested (certified) BATCH VALUES
Appearance	Clear liquid	Clear liquid	Clear liquid
Urea, % (w/w)	39-41	40.200395	40.20
Biuret, % (w/w)	< 0.4	0.200250	0.20
Water, % (w/w)	59-61	59.495785	*
Ammonia („free“ w/w)	0.1	0.103570	*
Total N, % (w/w)	40	40.010245	*
Density (g/cm ³)	1.10-1.15	1.11989	*
Refractive index	1.40-1.41	1.40225	*
pH	8.0-10.0	9.3	*

UREA-AMMONIUM NITRATE SOLUTION, 32 N (UAN-32)

TEST ITEM	SPECIFICATION	GRAVIMETRIC METHOD	Tested (certified) BATCH VALUES
Appearance	Clear liquid	Clear liquid	Clear liquid
Urea, % (w/w)	35	34.999426	34.99
Ammonium nitrate, % (w/w)	45	45.000345	-
Water, % (w/w)	20	20.000234	-
Biuret	0.5	0.501191	0.51
Ammonia („free“ w/w)	0.1	0.103572	-
Total N	32	32.016384	32.09
Density (g/cm ³)	1.3-1.4	1.31831	-
Refractive index	1.4-1.5	1.45733	-
pH	6.5-7.8	6.8	-

AdBlue®/DEF-UREA SOLUTION, 32,5%

TEST ITEM	SPECIFICATION	GRAVIMETRIC METHOD	Tested (certified) BATCH VALUES
Appearance	Clear liquid	Clear liquid	Clear liquid
Urea, % (w/w)	31.8-33.2	32.335064	32.35
Biuret, % (w/w)	< 0.3	0.161730	0.16
Water, % (w/w)	66.8-68.2	67.384500	*
Ammonia („free“ w/w)	0.10	0.103230	*
Density (g/cm ³)	1.08-1.10	1.09022	*
Refractive index	1.33-1.39	1.38436	*
pH	8.0-10.0	9.1	*

*Additional composition testing and certification services are possible for an additional fee.
- Reagents (feed-stock materials) manufacturer's certificates will be provided.



ADDRESS

Nalsios st. 11, LT-14332,
Vilnius, Lithuania, EU
info@sprana.eu www.sprana.eu

RICARDAS RAZGAITIS

Business Development Manager
Phone: +370 640 04 521
E-mail: r.razgaitis@sprana.eu