

**NEW**

# TOC / TIC Standards

Manufactured by Reagecon

**Reagecon**  
Delivering the Correct Result

## Why use Reagecon's RTOC / RTIC Standards?

### Commercial Benefits

- Extended shelf life
- Can be used with any brand of TOC analyzer.
- Extensive range (TOC + TIC (<500ppb – 50mg/L))
- Presented in single-use glass vials
- Ready to Use
- Raw materials sourced from USP or NIST

### Technical Benefits

- Uncertainty of measurement <math>\pm 5\%</math> TOC value (20°C) depending on standard.
- In accordance with USP <643> guidelines
- Consistency of product-Independent, traceable, certified.
- Certificates of Analysis and SDS sheets available online.



Reagecon manufactures a range of Total Organic Carbon and Total Inorganic Carbon Standards for ease of use when calibrating all types of TOC analyzers, irrespective of brand. All of our TOC standards are manufactured using high purity raw materials in accordance with USP <1051> and USP <643> guidelines. These products are prepared gravimetrically on a weight/weight basis. Both solute (salts) and solvent (water) are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for weighing (ref. 265C) and the resulting certificate is issued in accordance with the requirements of ISO/IEC 17025. The TOC / TIC of the standard is verified using a high performance calibrated, TOC analyzer. The calibration of this instrument involves the use of high purity ISO Guide 34 accredited TOC standards similar in TOC value to the products listed below.

## How to order

Code	Description	Pack Size Vial
RTOCW	USP Reagent Water Rw	40ml
RTOCRs	USP Standard Sucrose Solution Rs (0.5mg/L C)	40ml
ROCRss	USP System Suitability Solution 1,4-Benzoquinone (0.5mg/L C)	40ml
RTOCK01	TOC Standard 0.05mg/L C as KHP	40ml
RTOCK02	TOC Standard 0.06mg/L C as KHP	40ml

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Code	Description	Pack Size Vial
RTOCK03	TOC Standard 0.07mg/L C as KHP	40ml
RTOCK04	TOC Standard 0.08mg/L C as KHP	40ml
RTOCK05	TOC Standard 0.09mg/L C as KHP	40ml
RTOCK06	TOC Standard 0.1mg/L C as KHP	40ml
RTOCK07	TOC Standard 0.25mg/L C as KHP	40ml
RTOCK08	TOC Standard 0.5mg/L C as KHP	40ml
RTOCK09	TOC Standard 1.0mg/L C as KHP	40ml
RTOCK10	TOC Standard 1.5mg/L C as KHP	40ml
RTOCK11	TOC Standard 10mg/L C as KHP	40ml
RTOCK12	TOC Standard 25mg/L C as KHP	40ml
RTOCK13	TOC Standard 50mg/L C as KHP	40ml
RTOCK14	TOC Standard 5mg/L C as KHP	40ml

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Code	Description	Pack Size Vial
RTOCK15	TOC Standard 0.25mg/L C as KHP	40ml
RTOCK16	TOC Standard 4mg/L C as KHP	40ml
RTOCK17	TOC Standard 100mg/L C as KHP	40ml
RTOCK18	TOC Standard 1,000mg/L C as KHP	40ml
RTOCK19	TOC Standard 5,000mg/L C as KHP	40ml
RTOCK20	TOC Standard 20,000mg/L C as KHP	40ml
RTICN01	TIC Standard 0.5mg/L as Na <sub>2</sub> CO <sub>3</sub>	40ml
RTICN02	TIC Standard 1.0mg/L as Na <sub>2</sub> CO <sub>3</sub>	40ml
RTICN03	TIC Standard 1.5mg/L as Na <sub>2</sub> CO <sub>3</sub>	40ml
RTICN04	TIC Standard 2mg/L as Na <sub>2</sub> CO <sub>3</sub>	40ml
RTICN05	TIC Standard 5mg/L as Na <sub>2</sub> CO <sub>3</sub>	40ml
RTICN06	TIC Standard 10mg/L as Na <sub>2</sub> CO <sub>3</sub>	40ml

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Code	Description	Pack Size Vial
RTICN07	TIC Standard 25mg/L as Na <sub>2</sub> CO <sub>3</sub>	40ml
RTICN08	TIC Standard 50mg/L as Na <sub>2</sub> CO <sub>3</sub>	40ml
RTICN09	TIC Standard 4mg/L as Na <sub>2</sub> CO <sub>3</sub>	40ml
RTOCS01	TOC Standard 0.5mg/L C as Sucrose	40ml
RTOCS02	TOC Standard 1.0mg/L C as Sucrose	40ml
RTOCS03	TOC Standard 2mg/L C as Sucrose	40ml
RTOCS04	TOC Standard 5mg/L C as Sucrose	40ml
RTOCS05	TOC Standard 10mg/L C as Sucrose	40ml
RTOCS06	TOC Standard 25mg/L C as Sucrose	40ml
RTOCS07	TOC Standard 50mg/L C as Sucrose	40ml
RTOCS08	TOC Standard 0.25mg/L C as Sucrose	40ml
RTOCS09	TOC Standard 0.75mg/L C as Sucrose	40ml

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Code	Description	Pack Size Vial
RTOCS10	TOC Standard 4mg/L C as Sucrose	40ml
RTOCS11	TOC Standard 500mg/L C as Sucrose	40ml
RTOCS12	TOC Standard 50,000mg/L C as Sucrose	40ml
RTOCN01	TOC Standard 50mg/L C as Nicotinamide	40ml
RTOCN02	TOC Standard 0.5mg/L C as Nicotinamide	40ml
RTOCM01	TOC Standard 0.5mg/L C as Methanol	40ml
RTOCWa	USP Reagent Water Rw acidified with HCl	40ml
RTOCRsa	USP Standard Sucrose Solution Rs (0.5mg/L C) acidified with HCl	40ml
RTOCRssa	USP System Suitability Solution 1,4-Benzoquinone (0.5mg/L C) acidified with HCl	40ml

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Code	Description	See Single Component Standards	Pack Size Vial
RTOCUSP1	USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water Rw, Standard Solution Rs and Suitability Solution Rss	RTOCW, RTOCRs, RTOCRss	3 x 40ml
RTOCUSP2	2 x (USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water Rw, Standard Solution Rs and Suitability Solution Rss) Delivered at six month intervals	RTOCW, RTOCRs, RTOCRss	3 x 40ml
RTOCUSP4	4 x (USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water Rw, Standard Solution Rs and Suitability Solution Rss) Delivered at three month intervals	RTOCW, RTOCRs, RTOCRss	3 x 40ml
RTOCUSP12	12 x (USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water Rw, Standard Solution Rs and Suitability Solution Rss) Delivered at monthly intervals	RTOCW, RTOCRs, RTOCRss	3 x 40ml vials
RTOCUSP52	52 x (USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water Rw, Standard Solution Rs and Suitability Solution Rss) Delivered at 2 weekly intervals	RTOCW, RTOCRs, RTOCRss	3 x 40ml
RTOCUSP260	260 x (USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water Rw, Standard Solution Rs and Suitability Solution Rss) Delivered at 2 weekly intervals	RTOCW, RTOCRs, RTOCRss	3 x 40ml
RC120001	Carbon Calibration Set 1-50mg/L C consisting of 1 x 40ml vial each of calibration blank, TOC Standards 1,5,10,25,50 mg C/L as KHP, TIC Standards 1,5,10,25,50 mg C/L as Na <sub>2</sub> CO <sub>3</sub>	RTOCW, RTOCK09, RTOCK14, RTOCK11, RTOCK12, RTOCK13, RTICN02, RTICN05, RTICN06, RTICN07, RTICN08	11 x 40ml
RC120002	1mg C/L Carbon Standard Set consisting of 1 x 40ml vial each of calibration blank, 1mg C/L TOC as KHP and 1 mg C/L TIC as Na <sub>2</sub> CO <sub>3</sub>	RTOCW, RTOCK09, RTICN02	3 x 40ml
RC120003	1mg C/L Carbon Verification Set consisting of 1 x 40ml vial each of calibration blank, 1mg C/L TOC as Sucrose and 1 mg C/L TIC as Na <sub>2</sub> CO <sub>3</sub>	RTOCW, RTOCS02, RTICN02	3 x 40ml
RC120004	1mg C/L Carbon Standard Set and Verification Set consisting of 1 x RC120002 and 1 x RC120003	RTOCW, RTOCK09, RTICN02, RTOCW, RTOCS02, RTOCN02	6 x 40ml
RC120005	5mg C/L Carbon Standard Set consisting of 1 x 40ml vial each of calibration blank, 5mg C/L TOC as KHP and 5 mg C/L TIC as Na <sub>2</sub> CO <sub>3</sub>	RTOCW, RTOCK14, RTICN05	3 x 40ml

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RC120006	5mg C/L Carbon Verification Set consisting of 1 x 40ml vial each of calibration blank, 5mg C/L TOC as Sucrose and 5 mg C/L TIC as Na <sub>2</sub> CO <sub>3</sub>	RTOCW, RTOCS04, RTICN05	3 x 40ml
RC120007	5mg C/L Carbon Standard and Verification Set consisting of 1 x RC120005 and 1 x RC120006	RTOCW, RTOCK14, RTICN05, RTOCW, RTOCS04, RTICN05	6 x 40ml
RC120008	0.5mg C/L Carbon Verification Set consisting of 1 x 40ml vial each of calibration blank, 0.5mg C/L TOC as Sucrose and 0.5 mg C/L TIC as Na <sub>2</sub> CO <sub>3</sub>	TOCW, RTOCS01, RTICN01	3 x 40ml
RC120009	1mg C/L Carbon Standard and 0.5mg C/L Carbon Verification Set Consisting of 1 x RC120002 and 1 x RC120008	RTOCW, RTOCK09, RTICN02, RTOCW, RTOCS01, RTICN01	6 x 40ml
RC120010	Validation Set -- Accuracy Precision (0.5mg), consisting of 1 x Reagent water Rw and 1 x 0.5mg C/L as sucrose in 40ml Vials	RTOCW, RTOCS01	2 x 40ml
RC120011	Validation Set -- Linearity, consisting of 1x Reagent water blank and 1 each of 0.25mg C/L, 0.5mg C/L, 0.75mg C/L, as Sucrose in 40ml vials	RTOCW, RTOCS08, RTOCS01, RTOCS09,	4 x 40ml
RC120012	Validation Set -- Specificity, consisting of 1 x Reagent water, 1 x 0.5mg C/L as Methanol, 1 x 0.5mg C/L as Nicotinamide and 1 x 0.5mg C/L as KHP in 40ml vials	RTOCW, RTOCM01, RTOCN02, RTOCK01	4 x 40ml
RC120013	Validation Set -- Robustness Standards, consisting of 1 x Reagent water Rw, 1 x Standard Solution Rs, 1 x System suitability solution Rss in 40ml vials. All standards in the set acidified	RTOCWa, RTOCRsa, RTOCRssa	3 x 40ml
RC120014	Validation Set -- Complete , consisting of 1xRC120010, 1xRC120011, RC120012 and RC120013	RC120010, RC120011, RC120012, RC120013	13 x 40ml
RC120015	10mg C/L Carbon Standard Set consisting of 1 x 40ml vial each of calibration blank, 10mg C/L TOC as KHP and 10 mg C/L TIC as Na <sub>2</sub> CO <sub>3</sub>	RTOCW, RTOCK11, RTICN06	3 x 40ml
RC120016	Multipoint calibration set for Sievers 5310C, consisting of 1 x calibration blank, 1 each of 0.25, 1, 5, 25, 50mg C/L as KHP TOC standards and 1 each of 1, 5, 10, 25, 50mg C/L as Na <sub>2</sub> CO <sub>3</sub> TIC standards	RTOCW, RTOCK15, RTOCK02, RTOCK14, RTOCK12, RTOCK13, RTICN02, RTICN05, RTICN06, RTICN07, RTICN08	11 x 40ml

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Code	Description	See Single Component Standards	Pack Size Vial
RC120017	2mg C/L Carbon Verification Set consisting of 1 x 40ml vial each of calibration blank, 2mg C/L TOC as Sucrose and 2mg C/L TIC as Na <sub>2</sub> CO <sub>3</sub>	RTOCW, RTOCS03, RTICN04	3 x 40ml
RC120018	10mg C/L Carbon Verification Set consisting of 1 x 40ml vial each of calibration blank, 10mg C/L TOC as Sucrose and 10mg C/L TIC as Na <sub>2</sub> CO <sub>3</sub>	RTOCW, RTOCS05, RTICN06	3 x 40ml
RC120019	3 point Carbon Verification Set consisting of 1 x 40ml Vial each of 1, 5, 10mg C/L as KHP	RTOCK09,RTOCK14, RTOCK11	3 x 40ml
RC120020	Ultra low TOC Standard Set consisting of 1 x 40ml Vial each of .05, .06, .07, .08, .09, 0.10, 0.25, 0.5, 1.0mg C/L as KHP	RTOCK01, RTOCK02, RTOCK03, RTOCK04, RTOCK05, RTOCK06, RTOCK07,R TOCK08, RTOCK09	9 x 40ml
RC120021	Autoreagents Calibration and Verification set for Sievers 900 and Sievers 5310C consisting of 1x TOC calibration blank, 1x 25mg C/L Calibration standard as KHP, 1x 25mg C/L Calibration standard as Na <sub>2</sub> CO <sub>3</sub> , 1x 50mg C/L as Nicotinamide, 1 x TOC Verification Blank, 1 x25mg C/L as sucrose, 1x50mg C/L as sucrose and 1x50mg C/L as Na <sub>2</sub> CO <sub>3</sub>	RTOCW, RTOCK12, RTICN07, RTOCN01, RTOCW, RTOCS06, RTOCS07, RTICN08	8 x 40ml

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