

Sievers* certified and sample vial specification sheet

SUEZ, a global leader in low-level Total Organic Carbon (TOC) standards and measurement technology through its Sievers product line, offers pre-cleaned TOC vials designed to give manufacturers confidence in the quality of their TOC measurements. These vials are reliable, economical, and scrupulously cleaned, with many certified to be below 10 ppb TOC. Cleaning validation kits

offer certified vials and swabs to facilitate a simplified supply chain for materials required to validate cleaning processes. Material, dimensional, and certification details can be found in the table below for each of the vial products offered.

Product	Part Number	Fill Vol.	Vial	Cap	Dust Cap	Pre-Treatment/ Pre-Fill	Packaging	Quantity per Case/Set	Certification
Certified Blue									
Certified Blue Dual Use Conductivity & TOC (DUCT) Vials	HMI 77510-01	30 mL	L ¹ : 70 mm OD ² : 27.5 mm Material: Clear borosilicate glass with specialty coating	Cap: 24-414 Polypropylene Septum: Four-layer proprietary silicone septum	LDPE/HDPE	Pre-cleaned	Cardboard-free, single bagged, electronic certificate	30	< 10 ppb TOC and no ionic leaching per ISO 4802-2 test
Certified Blue DUCT Clean Packaged Vials	HMI 77530-01	30 mL	L: 70 mm OD: 27.5 mm Material: Clear borosilicate glass with specialty coating	Cap: 24-414 Polypropylene Septum: Four-layer proprietary silicone septum	LDPE/HDPE	Pre-cleaned	Cardboard-free, triple bagged, electronic certificate	30	< 10 ppb TOC and no ionic leaching per ISO 4802-2 test
Certified Blue TOC Vials, 72/case[†]	HMI 90610-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp ³)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/HDPE	Pre-cleaned	Cardboard-free, single bagged, electronic certificate	72	< 10 ppb TOC
Certified Blue Pre-Acidified TOC Vials	HMI 90690-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/HDPE	Pre-cleaned, 20 µL of 85 w/w % ACS Grade Phosphoric Acid	Cardboard-free, single bagged, electronic certificate	72	< 35 ppb TOC; ≥ 85 w/w % Phosphoric Acid

Certified Blue TOC Vials, 12/case†	HMI 91210-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/ HDPE	Pre-cleaned	Cardboard-free, single bagged, electronic certificate	12	< 10 ppb TOC
Certified Blue Clean Packaged TOC Vials†	HMI 91230-01	40 mL	L: 95 mm OD: 27.5 m Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/ HDPE	Pre-cleaned	Cardboard-free, triple bagged, electronic certificate	12	< 10 ppb TOC
Certified Vials									
Dual Use Conductivity & TOC (DUCT) Vials	HMI 77500-01	30 mL	L: 70 mm OD: 27.5 mm Material: Clear borosilicate glass with specialty coating	Cap: 24-414 Polypropylene Septum: Four-layer proprietary silicone septum	LDPE/ HDPE	Pre-cleaned	Cardboard, paper certificate	30	< 10 ppb TOC and no ionic leaching per ISO 4802-2 test
Certified TOC Vials†	HMI 90606	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/ HDPE	Pre-cleaned	Cardboard, paper certificate	72	< 10 ppb TOC
Pre-Acidified TOC Vials	HMI 90090-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/ HDPE	Pre-cleaned, 20 µL of 85 w/w % ACS Grade Phosphoric Acid	Cardboard, paper certificate	72	< 35 ppb TOC; ≥ 85 w/w % Phosphoric Acid
Filled Pre-Acidified Vials, 40 mL 0.072%, 4-pack	HMI 90691-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/ HDPE	Pre-cleaned, 40 mL of 0.072 w/w % Phosphoric Acid Solution	Mylar Bag, paper certificate	4	< 85 ppb TOC
Filled Pre-Acidified Vial, 20 mL 0.072%, Single pack	HMI 90692-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/ HDPE	Pre-cleaned, 20 mL of 0.072 w/w % Phosphoric Acid Solution	Mylar Bag, paper certificate	1	< 85 ppb TOC
Filled Pre-Acidified Vials, 40 mL 0.085%, 4-pack	HMI 90693-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/ HDPE	Pre-cleaned, 40 mL of 0.085 w/w % Phosphoric Acid Solution	Mylar Bag, paper certificate	4	< 85 ppb TOC

Certified Amber TOC Vials	HMI 90608-01	40 mL	L: 95 mm OD: 27.5 mm Material: Amber borosilicate glass, Type 1	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/HDPE	Pre-cleaned	Cardboard, paper certificate	72	< 10 ppb TOC
Pre-Cleaned 17 mL Vials with Caps and Septa	HMI 90217-01	17 mL	L: 100 mm OD: 17.75 mm Material: Clear borosilicate glass, Type 1	Cap: 15-425 Polypropylene Septum: Silicone/Teflon	N/A	Pre-Cleaned	Cardboard, paper certificate	200	< 20 ppb TOC
Environmental, Muni, Process Sample Vials									
40 mL Sample Vials†	HMI 90707-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/HDPE	Pre-cleaned	Cardboard	72	Pre-cleaned to < 100 ppb TOC (Not certified)
40 mL Amber Sample Vials	HMI 90708-01	40 mL	L: 95 mm OD: 27.5 mm Material: Amber borosilicate glass, Type 1	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/HDPE	Pre-cleaned	Cardboard	72	Pre-cleaned to < 100 ppb TOC (Not certified)
TOC Cleaning Validation Kits									
Certified Blue Cleaning Validation Kit, DUCT	HMI 77520-01	30 mL	L: 70 mm OD: 27.5 mm Material: Clear borosilicate glass with specialty coating	Cap: 24-414 Polypropylene Septum: Four-layer proprietary silicone septum	LDPE/HDPE	Pre-cleaned	Cardboard-free, single bagged, electronic certificate	30 Vials, 40 Swabs	Vials: < 10 ppb TOC and no ionic leaching per ISO 4802-2 test Swabs: < 50 ppb TOC
Certified Blue Cleaning Validation Kit, Large†	HMI 90620-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/HDPE	Pre-cleaned	Cardboard-free, single bagged, electronic certificate	72 Vials, 80 Swabs	Vials: < 10 ppb TOC Swabs: < 50 ppb TOC
Certified Blue Cleaning Validation Kit, Small†	HMI 91220-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/HDPE	Pre-cleaned	Cardboard-free, single bagged, electronic certificate	12 Vials, 20 Swabs	Vials: < 10 ppb TOC Swabs: < 50 ppb TOC

Other Sample Containers

Pre-Cleaned 60 mL Glass Vials	HMI 90810-02	60 mL	L: 139 mm OD: 28 mm Material: Clear borosilicate glass, Type 1	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	N/A	N/A	Cardboard	72	N/A
35 mL Polypropylene Test Tubes	HMI 90800-01	35 mL	L: 150 mm OD: 20 mm Material: Clear Polypropylene (<i>conical bottom</i>)	N/A	N/A	N/A	Cardboard	250	N/A
30 mL Polysulfone Vials	HMI 90303-01	30 mL	L: 94 mm (with cap) OD: 25.8 mm Material: Transparent with straw color cast Polysulfone (<i>conical bottom</i>)	Cap: 20 mm Polypropylene	N/A	Pre-cleaned	Plastic Bag	10	N/A
Pre-Cleaned TOC Vials, 9-pack	HMI 90204-01	40 mL	L: 95 mm OD: 27.5 mm Material: Clear borosilicate glass, Type 1 (33 exp)	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/HDPE	Pre-cleaned	Cardboard	9	N/A
Pre-Cleaned Amber TOC Vials, 9-pack	HMI 90206-01	40 mL	L: 95 mm OD: 27.5 mm Material: Amber borosilicate glass, Type 1	Cap: 24-414 Polypropylene Septum: Silicone/Teflon	LDPE/HDPE	Pre-cleaned	Cardboard	9	N/A

Production Facility: All pre-cleaned and pre-filled vials are produced in an ISO 9001 facility.

TSE-BSE Statement: These products are made from synthetic materials and are not derived from biological sources.

Notes:

1. L = Length
2. OD = Outer Diameter
3. exp = expansion

† A shelf life study has been performed on these vial products that shows no increase in background TOC over a one-year period. It should be noted that if the vials are stored in an environment where volatile organic compounds are routinely used, this could affect results.

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