

Method

Detergents can be introduced into the water supply by industry, soap manufacturers, and private households. Environmental analysts often include a determination of anionic detergents when assessing surface water pollution.

The Methylene Blue Method

References: USEPA Methods for Chemical Analysis of Water and Wastes, Method 425.1 (1983). APHA Standard Methods, 23rd ed., Method 5540 C - 2000. ASTM D 2330-02, Methylene Blue Active Substances.

The methylene blue active substances (MBAS) method is used in a 3-minute procedure to measure anionic detergents. The procedure features a superior extraction/sampling technique that eliminates several steps required in other test procedures and provides increased sensitivity.

Anionic detergents react with methylene blue to form a blue-colored complex that is extracted into an immiscible organic solvent. Results are expressed in ppm (mg/L) as linear alkylbenzene sulfonate (LAS), equivalent weight 325.

The shelf life of R-9400 is 5 months and R-9423 is 8 months. We recommend stocking quantities accordingly.



Visual Kits

Range: 0-3 ppm
MDL: 0.125 ppm / Method: Methylene Blue

	Cat#
CHEMets Kit	K-9400
CHEMets Refill, 20 ampoule sets, Shelf life 5 months	R-9400
Comparator 0, 0.25, 0.50, 0.75, 1.0, 1.5, 2.0, 3.0 ppm	C-9400

Kit comes in a cardboard box and contains everything needed to perform 20 tests: Refill, Comparator, reaction tube with lid, tip breaking tool and instructions.

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Instrumental Kits

SAM Single Analyte Photometer

(See page 16 for instrumental features)

Range: 0-2.50 ppm
Method: Methylene Blue

	Cat#
Detergents SAM Kit	I-2017
Instrumental Refill, 20 double-tipped ampoules, 21 test tubes, dropper bottle with cap, tip-breaking tool and instructions. Shelf life 8 months.	R-9423

SAM Kit comes in a cardboard box and contains everything needed to perform 20 tests: Instrumental Refill, SAM Photometer, light shield, 4 AAA batteries, screwdriver, and instructions.

Components and Accessories

Description	Cat#
Tip Breaking Tool Pack (2 ea)	A-0197
Reaction Tube w/Lid, Detergents (5 ea)	A-0087

Instructions and SDSs are posted on our website.

If no shelf life is listed for a product, then the shelf life is at least 1 year.