Table 9.1 Required Containers, Preservation Techniques, and Holding Times for Drinking Water Samples, Except Radiochemical Parameters

		Container		
	("P" means plastic,			
		hard or soft: "G" means		
Parameter	Preservation	glass, hard or soft.)	Maximum Holding Time	
Total Coliform	$\overline{\text{Cool} 4^{\circ}\text{C}}$, 0.08% sodium thiosulfate	P or G	30 hours	
	$(Na_2S_2O_2)$	1 01 0		
Alkalinity	$\operatorname{Cool} 4^{\circ}\mathrm{C}$	P or G	14 days	
Antimony	Conc HNO ₂ to $pH < 2$	PorG	6 months	
Arsenic	Conc HNO ₂ to $pH < 2$	PorG	6 months	
Ashestos	Cool 4° C	PorG	Filter within 48 hours	
Barium	Conc HNO ₂ to $pH < 2$	PorG	0.00	
Borullium	Conc HNO_3 to $pH < 2$	PorG	0:00	
Cadmium	Conc HNO to $pH < 2$	PorG	6 months	
Calaium	Conc HNO to $pH < 2$	PorG	6 months	
	Colic HNO ₃ to $pH < 2$	PorG		
Chloride	None	P or G	28 days	
Chlorinated Hydrocarbons	Refrigerate at 4°C after collection,	Glass with foil or	14 days until extraction;	
	Ascorbic acid	Teflon®-lined cap	40 days after extraction	
Chlorinated Pesticides	80mg/L Na ₂ S ₂ O ₃ (if residual	Glass with Teflon®-lined	7 days until extraction;	
	chlorine (Cl_2) is present)	septum	14 days after extraction	
	Cool 4°C			
Chlorinated phenoxy Acids	80mg/L Na ₂ S ₂ O ₃ (if residual CLI ₂)	Glass with Teflon®-lined	14 days until extraction;	
	is present)	septum	28 days after extraction	
	Cool 4°C			
Chlorine dioxide	None	P or G	Analyze Immediately	
Chlorinated Acids	Refrigerate at 4°C after collection,	Glass with foil or	7 days until extraction;	
	Ascorbic acid	Teflon®-lined cap	30 days after extraction	
Chromium	Conc HNO ₃ to $pH < 2$	P or G	6 months	
Copper	Conc HNO ₃ to $pH < 2$	P or G	6 months	
Cvanide	NaOH to pH > 12. Cool 4° C. 0.6 g	P or G	14 days	
Cyunde	ascorbic acid			
EDB/DBCP	$Cool 4^{\circ}C = 0.08\% Na_{2}S_{2}O_{2}$ (if	Glass with Teflon®-lined	28 days	
	residual Cl ₂) 1:1 HCl to $pH < 2$	septum	20 augs	
Fluoride	None	P	28 days	
Free Chlorine Residuel	None	r Dor G	20 uays	
L and	Conc HNO to $pH < 2$	PorG	6 months	
Managan	Conc HNO ₃ to $pH < 2$	PorG		
Mercury	Conc HNO ₃ to $pH < 2$	P or G	28 days	
N-Methyl-Carbamoyloximes	Monochioroacetic acid to pH 3	Glass with Tellon®-lined	28 days at -10°C	
N-Methyl-Carbamates	$80 \text{ mg/L} \text{ Na}_2 \text{S}_2 \text{O}_3$, Cool 4°C until	septum		
	storage, Store at -10°C		<i>c</i> 1	
Nickel	Conc HNO ₃ to $pH < 2$	P or G	6 months	
Nitrate Chlorinated	Cool 4°C	P or G	28 days	
Nitrate Non-chlorinated	Conc H_2SO_4 to $pH < 2$	P or G	14 days	
Nitrite	Cool 4°C	P or G	48 hours	
Nitrogen- and Phosphorus-	80mg/L Na ₂ S ₂ O ₃ , (if residual Cl ₂)	Glass (dark) with	14 days until extraction;	
Containing Pesticides	Cool 4°C	Teflon®-lined septum	14 days after extraction	
o-Phosphate Organic	Filter Immediately, Cool 4°C	P or G	48 hours	
Compounds	If residual Cl ₂ 40-50 mg sodium	Glass with Teflon®-lined	7 days until extraction;	
*	arsenite or sodium thiosulfate; if	septum	30 days after extraction	
	unchlorinated 6 N HCl tp $pH < 2$	*		
Organohalide Pesticides and	$3 \text{mg Na}_2 \text{S}_2 \text{O}_3 \text{ or } 7 \text{ul}$	Glass with Teflon®-lined	If Heptachlor. 7 days	
Commercial PCB Products	$Na_2S_2O_3(0.04g/ml)$. Cool	septum	until extraction: 40 days	
(Arochlors)	4°C until analyzed	1	after extraction. If no ex-	

		Container	
		("P" means plastic,	
		hard or soft; "G" means	
Parameter	Preservation	glass, hard or soft.)	Maximum Holding Time
			traction analysis 14 days
Ozone	None	G	Analyze Immediately
pH	None	P or G	Analyze Immediately
Selenium	Conc HNO ₃ to $pH < 2$	P or G	6 months
Silver	Conc HNO ₃ to $pH < 2$	P or G	6 months
Sodium	Conc HNO ₃ to $pH < 2$	P or G	6 months
Sulfate	Cool 4°C	P or G	28 days
Temperature	None	P or G	Analyze Immediately
Thallium	Conc HNO ₃ to $pH < 2$	P or G	6 months
TTHMs	$Na_2S_2O_3$ if residual Cl_2 and	Glass with Teflon®-lined	14 days
	6N HCl	septum	
Total Dissolved Solids	Cool 4°C	P or G	7 days
Turbidity	Cool 4°C	P or G	48 hours
Volatile Aromatic and	1:1 HCl to $pH < 2$	Glass with Teflon®-lined	14 days
Unsaturated Organic	Cool, 4°C until analysis, Ascorbic	septum	
Compounds	acid		
Volatile Halogenated Organic	1:1 HCl to $pH < 2$	Glass with Teflon®-lined	14 days
Compounds	Cool, 4°C until analysis, Ascorbic	septum	
	acid		
Volatile Organic Compounds	1:1 HCl to $pH < 2$	Glass with Teflon®-lined	14 days
	Cool, 4°C until analysis, Ascorbic	septum	
	acid		