

Capabilities comparison of *ALTEF* and Multi-Layer Foil Gas Sampling Bags Based on commonly sampled chemical compounds

Sulfur Compounds

Compound	Recommended sampling bag material		
	ALTEF	Multi-Layer Foil	
n-Butyl mercaptan			
tert-Butyl mercaptan			
Carbon disulfide [†]			
Carbonyl sulfide			
Diethyl disulfide			
Diethyl sulfide [†]			
Dimethyl disulfide			
Dimethyl sulfide [†]			
2,5-Dimethylthiophene			
Ethyl mercaptan [†]			
Ethyl methyl sulfide [†]			
2-Ethylthiophene			
Hydrogen Sulfide			
Isobutyl mercaptan [†]			
Isopropyl mercaptan [†]			
3-Methylthiophene			
Methyl mercaptan [†]			
n-Propyl mercaptan [†]			
Tetrahydrothiophene			
Thiophene [†]			

Color Code:

Red: Not suitable Dark Green: Recommended

Light Green: Suitable when used as recommended

- † ALTEF bags can be used to sample these sulfur compounds if sample is analyzed within 24 hours.
- †† Multi-Layer Foil bags can be used to sample most VOCs but are not recommended for collecting low ppm to high ppb VOCs due to background levels from bag materials.

ALTEF bags are recommended for most VOCs, if analyzed within 48 hours, and for many sulfur compounds, if analyzed within 24 hours.

Multi-Layer Foil bags are recommended for Methane (CH_4), Hydrogen Sulfide (H_2S), Carbon Monoxide (CO), and Carbon Dioxide (CO_2), if analyzed within 48 hours.

VOCs

1000			
Compound	Recommended sampling bag material		
	ALTEF	Multi-Layer Foil ^{††}	
Acetone			
Acetonitrile			
Acrylonitrile			
Allyl chloride			
Benzene			
Bromoethane			
Butyl Acetate			
Carbon tetrachloride			
Chloroform			
Carbon dioxide			
Carbon monoxide			
1,2-Dichloroethane			
Dichloropropane			
Ethyl acetate			
Ethylene			
Heptane			
Hexane			
Isooctane			
Isopropyl alcohol			
Methane			
Methyl ethyl ketone			
Methylene chloride			
Methyl tert-butyl ether			
Octane			
Perchloroethylene			
Propylene			
Propylene oxide			
Tetrahydrofuran			
Toluene			
1,1,1-Trichloroethane			
Trichloroethylene			
Vinylidene chloride			
p-Xylene			

F:U:J:GB:COMPARE ML-ALTEF EFFECTIVE 12/2010