

HALO® SMALL MOLECULE NANO/CAPILLARY COLUMN CARE & USE SHEET

Description

- HALO® columns are available in multiple superficially porous particle sizes, pore sizes, and stationary phases.
 - Applicable to 0.3 to 0.5 mm ID columns

Operation Guidelines

- The direction of flow is marked on the column label.
- Water and all common organic solvents are compatible with HALO® columns.
- Running the column in the reversed flow direction is not recommended.
- Tightening the end fittings is not recommended because this can cause damage to the capillary column and could lead to differences in back pressure, shorter column lifetimes, and leaks.
- View installation and instructional video here: [instructional video](#)
- For high sensitivity mass spectrometric detection of small organic analytes, we recommend an overnight rinse with high purity solvents (MS grade) to a waste container at lowered flow rate. A 50% acetonitrile/water solution at room temperature at 0.1-0.3 X normal flow rate for the column ID should remove any traces of solvents or impurities from the column and instrument that may appear for very high sensitivity analyses.

Small Molecule HALO® Phases					
Phase	Shipping Solvent	Storage Solvent	low pH/Max. Temp.	high pH/Max.Temp.	100% Aqueous Compatible
AQ-C18	ACN	ACN	2/60 °C	9/40 °C	√
C8	ACN/water	ACN	2/60 °C	9/40 °C	
C18	ACN/water	ACN	2/60 °C	9/40 °C	
Elevate C18	ACN/water	ACN	2/60 °C	12/60 °C	
LPH-C18	ACN/Water	ACN	1/90 °C	8/40 °C	
PCS C18	ACN	ACN	2/60 °C	7/40 °C	√
PCS Phenyl-Hexyl	ACN	ACN	2/60 °C	7/40 °C	√
C30	ACN/water	ACN	2/60 °C	9/40 °C	√
Phenyl-Hexyl	ACN/water	ACN	2/60 °C	9/40 °C	√
Biphenyl	Methanol	Methanol	2/60 °C	9/40 °C	√
PPF	ACN	ACN	2/60 °C	8/40 °C	√
ES-CN	ACN	ACN	1/80 °C	8/40 °C	√
RP-Amide	ACN/water	ACN	2/60 °C	9/40 °C	√
HILIC	ACN	ACN	1/60 °C	8/40 °C	√
Penta-HILIC	90/10 ACN/water	ACN	2/60 °C	9/40 °C	√

*All small molecule phases have 90 Å pore size except C30 which has a pore size of 160 Å

HALO® Nano/Capillary Columns	
ID (mm)	Max Pressure (bar)
0.3 – 0.5	400

Column Care & Storage

To maximize column life, ensure that samples and mobile phases are particle-free. The use of an in-line filter with 0.5-micron porosity between the pump and sample injector is highly recommended. Before storing the column, the end-fittings should be tightly sealed with the end-plugs that came with the column to prevent the packing from drying. For storage longer than 3 days, rinse the capillary with at least 20 column volumes of 50/50 ACN/water (if using buffer) then with 100% of the storage solvent. For column cleaning procedures, please see the HALO® Column Cleaning Procedures and Best Practices document by using the QR code.

Safety

- HPLC columns are for laboratory use only. Not for drug, household, or other use.
- Users of HPLC columns should be aware of the toxicity or flammability of the mobile phases chosen for use with the columns. Precautions should be taken to avoid contact and leaks.
- HPLC columns should be used in well-ventilated environments to minimize concentration of solvent fumes.

Ordering Information & Technical Support

For ordering information or for technical support on this product, please contact us at support@advanced-materials-tech.com or halocolumns.com or contact your local HALO® distributor.



halocolumns.com

