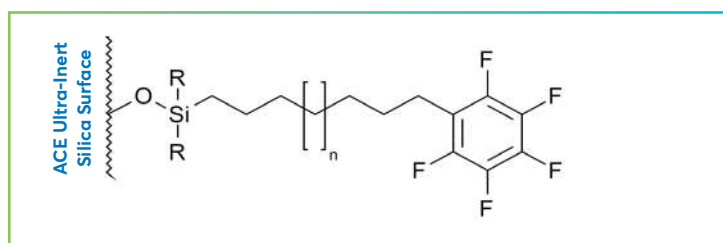


ACE C18-PFP

- Combines the C18 and pentafluorophenyl (PFP) functionalities
- Hydrophobicity, stability and low bleed characteristics of a C18 and the π - π interactions, dipole-dipole interactions and shape selectivity of a PFP phase
- Unique selectivity phase can separate mixtures that cannot be readily separated by either phase alone



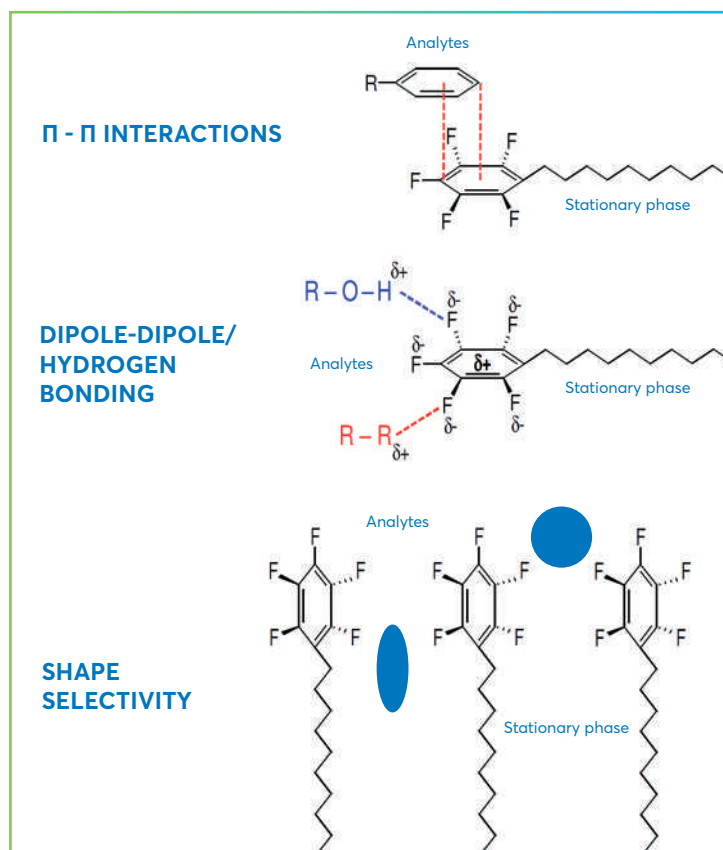
PHASE SPECIFICATIONS

Phase	USP Listing	Functional group	Endcapped	Particle size (μm)	Pore size (\AA)	Surface area (m^2/g)	Carbon load (%)	pH range	100% aqueous compatibility
C18-PFP	L1	Octadecyl with integral PFP group	Yes	1, 7, 2, 3, 5, 10	100	300	14.3	2-8	Yes



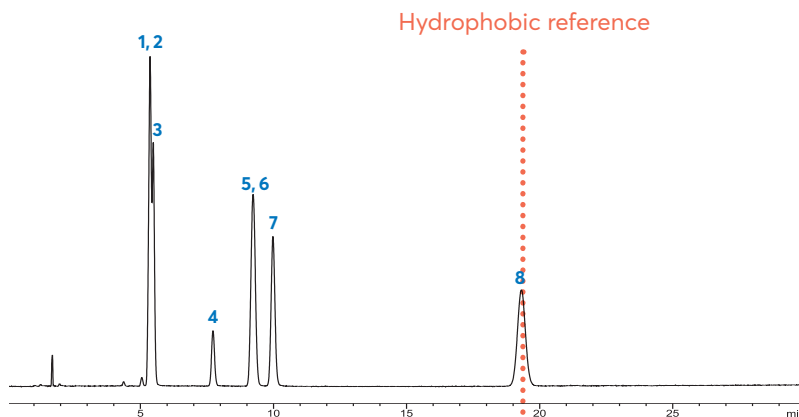
RECOMMENDED APPLICATIONS

- Analytes with π -bonding, conjugated systems and electron donating groups such as phenols, aromatic ethers and amines
- Analytes with proton donor groups
- Structural isomers, steroids, substituted aromatics and taxanes
- Applications where C18 does not provide adequate separation
- Applications where conventional PFP phases provide insufficient retention, poor stability or significant bleed

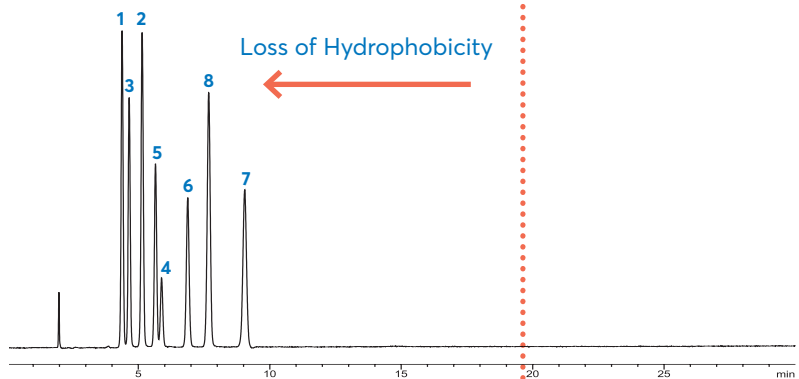


THE IMPORTANCE OF MAINTAINING HYDROPHOBICITY DURING MULTI-MODE INTERACTIONS

ACE 3 C18

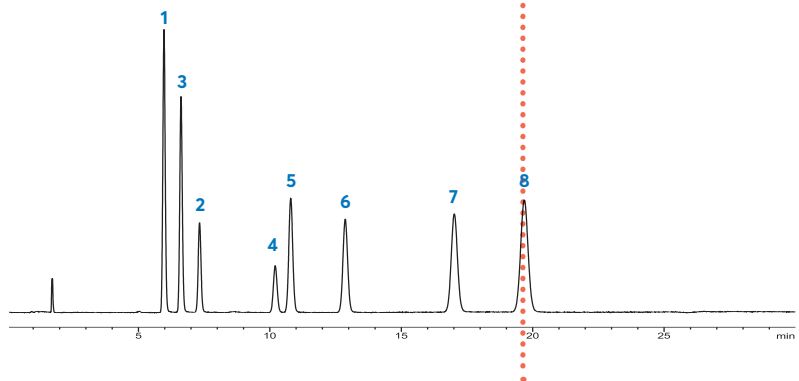


Typical 3 µm PFP
(propyl spacer)



Alternative selectivity –
but significant decrease
in hydrophobicity

ACE 3 C18-PFP



Alternative selectivity –
but hydrophobicity
maintained

Sample: 1) 1,2,3-trimethoxybenzene 2) 1,2,4-trimethoxybenzene 3) 1,2-dimethoxybenzene 4) 1,4-dimethoxybenzene 5) methoxybenzene 6) 1,3-dimethoxybenzene 7) 1,3,5-trimethoxybenzene
8) neutral molecule (reference)
Column Dimensions: 150 x 4.6 mm - **Flow Rate:** 1.00 ml/min - **Temperature:** 40°C - **Detection:** UV, 254 nm - **Mobile Phase:** 50:50 v/v MeOH/H₂O
Phenomenex columns were not used in the above comparison. Comparative data may not be representative of all applications.