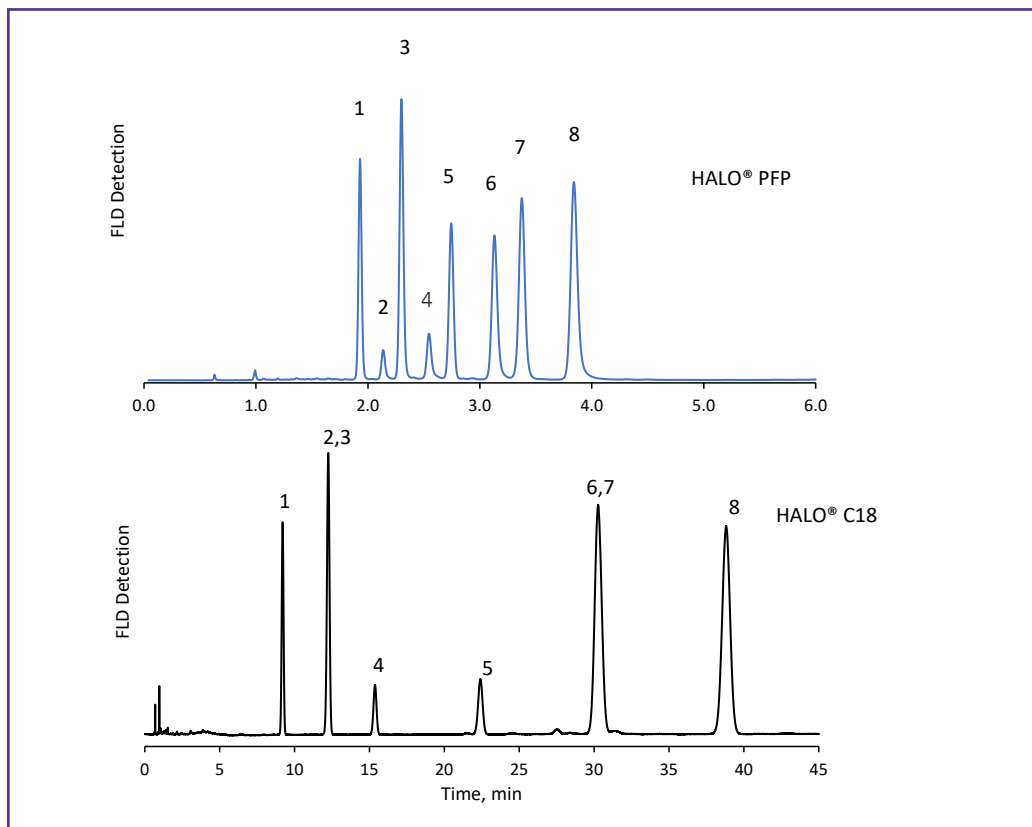




### Phase Comparison for Tocopherols and Tocotrienols

242-V



#### PEAK IDENTITIES

1.  $\delta$ -tocotrienol
2.  $\beta$ -tocotrienol
3.  $\gamma$ -tocotrienol
4.  $\alpha$ -tocotrienol
5.  $\delta$ -tocopherol
6.  $\beta$ -tocopherol
7.  $\gamma$ -tocopherol
8.  $\alpha$ -tocopherol

#### TEST CONDITIONS:

**Column:** HALO 90 Å PFP, 2.7  $\mu$ m, 4.6 x 150 mm  
**Part Number:** 92814-709  
**Column:** HALO 90 Å C18, 2.7  $\mu$ m, 4.6 x 150 mm  
**Part Number:** 92814-702  
**Mobile Phase A:** Water  
**B:** Methanol  
**Isocratic:** 90 %B  
**Flow Rate:** 1.5 mL/min  
**Initial Back Pressure:** 383 bar  
**Temperature:** 25 °C  
**Detection:** FLD: Ex: 296/ Em: 325  
**Injection Volume:** 1.0  $\mu$ L  
**Sample Solvent:** Methanol  
**Data Rate:** 100 Hz  
**LC System:** Shimadzu Nexera X2

Tocopherols and tocotrienols are a form of Vitamin E (fat-soluble) that have antioxidant properties in both the body and in food. They are also used for cosmetics and many personal care products. A separation of tocopherols and tocotrienols is performed on a HALO® PFP and C18 column. The PFP column shows 10x faster run times along with baseline resolution compared to the C18 column under the same testing conditions.

