

# Purity Test of Olive Oil, with reference to the Japanese Pharmacopoeia, 16th Edition -Comparisons of Chromosorb Series and Uniport Series of Siliceous Soil Supports

Olive oil, is described in the Japanese Pharmacopoeia, as an oily ointment base. It is also used for skin care because it is effective in the prevention of dryness in the skin and mucous membranes.

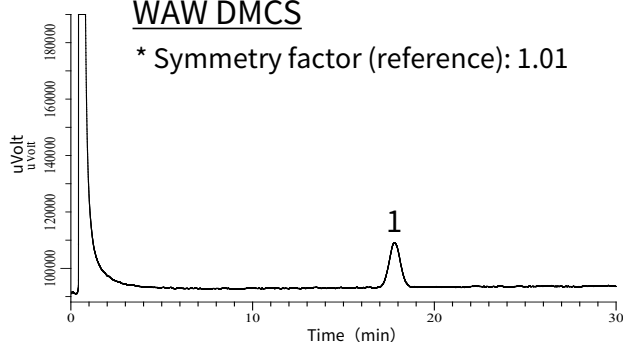
In this study, methyl behenate in acetone was analyzed using a packed column in accordance with the Purity Test (2) Peanut oil.

## Example: Measurement of standard

Siliceous soil supports, Chromosorb series and Uniport series were compared, with no significant differences found in peak shape between the two carriers, and excellent results are reported.

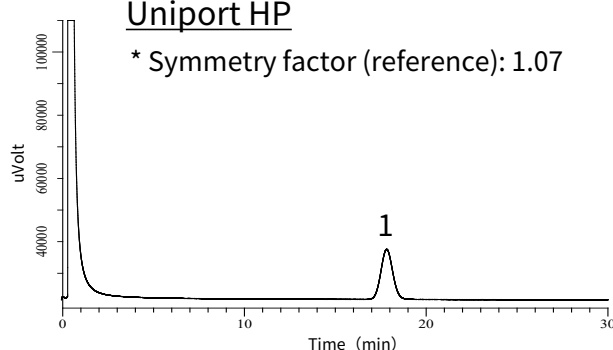
### WAW DMCS

\* Symmetry factor (reference): 1.01



### Uniport HP

\* Symmetry factor (reference): 1.07



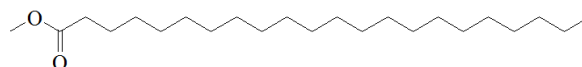
### Conditions

**System** : GC - FID  
**Column** : PEG-20M 5 %  
 Uniport HP 80/100  
 Chromosorb WAW DMCS 80/100  
 3 mm I.D. x 2 m  
**Col. Temp.** : 220 °C  
**Carrier Gas** : He 210 kPa  
 \* Methyl behenate was adjusted to elute in about 18 minutes.  
**Injection** : 250 °C  
**Detection** : FID Range 10<sup>^1</sup>  
 250 °C  
**Sample Size** : Analyte in Acetone  
 2.0 µL

### Analyte

1. Methyl Behenate

### Structural Formula



Methyl behenate  
Methyl Behenate

Structures created using Chemistry 4-D Draw which is provided by ChemInnovayion Software, Inc.

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