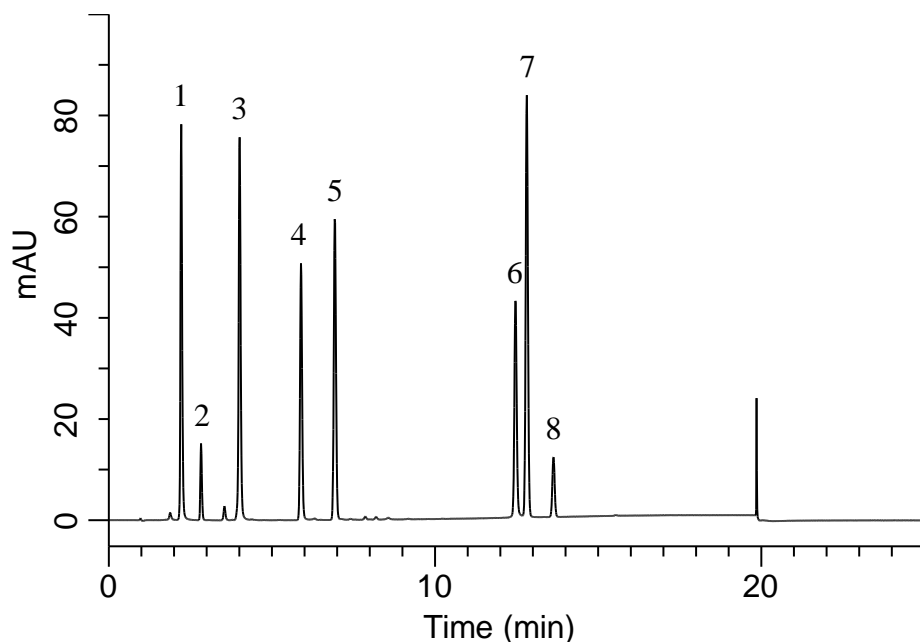


## Analysis of Ultraviolet absorbers



### Conditions

**System** : GL7700 HPLC system  
**Column** : InertSustain C18  
 (3  $\mu$  m, 100 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-07444  
**Eluent** : A) CH<sub>3</sub>CN  
 B) H<sub>2</sub>O

Time (min)	A (vol%)	B (vol%)
0.0	50	50
14.0	100	0
17.0	100	0
17.1	50	50
25.0	50	50

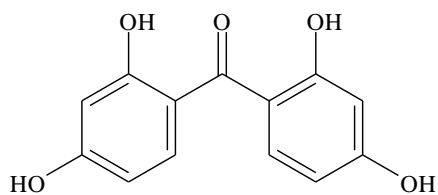
**Flow Rate** : 1.0 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : UV 320 nm (PD7752 PDA Detector)  
**Injection Vol.** : 10  $\mu$  L  
**Sample** : Standard

### Analyte:

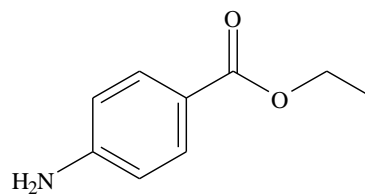
- 2,2',4,4'-Tetrahydroxybenzophenone (THB)
- Ethyl 4-aminobenzoate (EAB)
- 2,4-Dihydroxybenzophenone (DHB)
- 2,2'-Dihydroxy-4,4'-dimethoxybenzophenone (DHDMB)
- 2-Hydroxy-4-methoxybenzophenone (HMB)
- 1-(4-tert-Butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione (BMB)
- 2-Ethylhexyl 4-methoxycinnamate (EMC)
- 2-Ethylhexyl salicylate (ES)

(50 mg/L each)

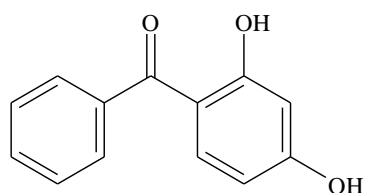
## Analysis of Ultraviolet absorbers



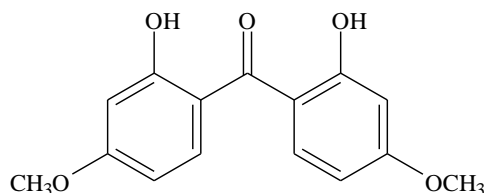
1. 2,2',4,4'-Tetrahydroxybenzophenone (THB)



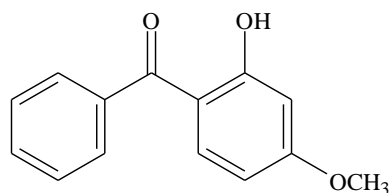
2. Ethyl 4-aminobenzoate (EAB)



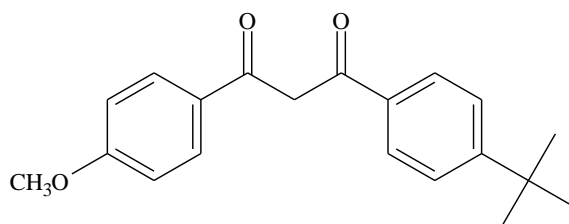
3. 2,4-Dihydroxybenzophenone (DHB)



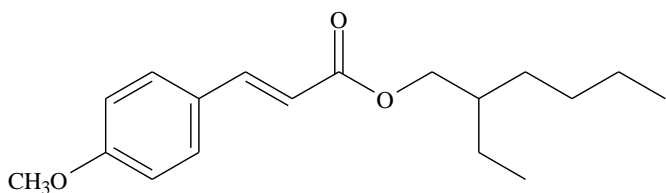
4. 2,2'-Dihydroxy-4,4'-dimethoxybenzophenone (DHDMB)



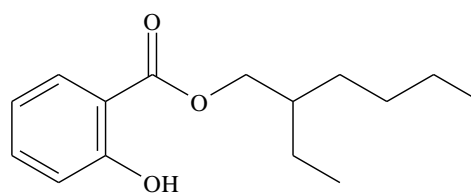
5. 2-Hydroxy-4-methoxybenzophenone (HMB)



6. 1-(4-tert-Butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione (BMB)



7. 2-Ethylhexyl 4-methoxycinnamate (EMC)



8. 2-Ethylhexyl salicylate (ES)