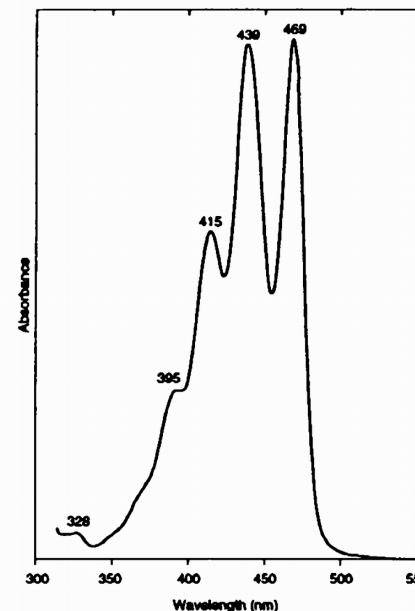
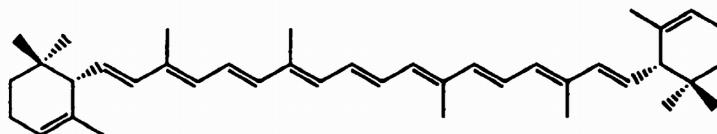


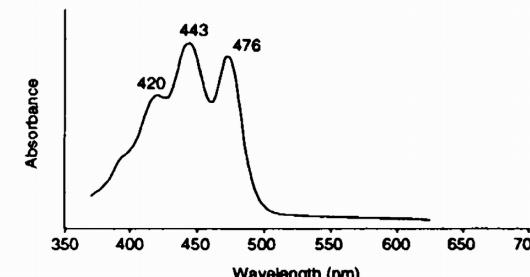
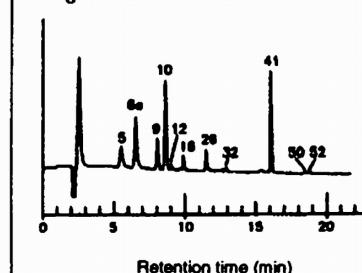
## Standard spectrum in reference solvent: hexane



## Molecular structure



## Diode array spectrum in SCOR eluant

HPLC:  $\epsilon, \epsilon$ -carotene, peak 50  
*Pelagococcus subviridis*

## Property

## Data

Name:	(Trivial) (IUPAC)	$\epsilon$ -Carotene (6S,6'S)- $\epsilon, \epsilon$ -Carotene
SCOR abbreviation:	$\epsilon\epsilon$ -car	
Occurrence:		Minor or trace pigment in marine chrysophytes (e.g. <i>Pelagococcus subviridis</i> ), cryptomonads
Colour:		Yellow
Molecular formula:		C <sub>40</sub> H <sub>56</sub>
Molecular weight:		536.88
Specific extinction coefficient: $E_{1\text{ cm}}^{1\%}$ (100 ml g <sup>-1</sup> cm <sup>-1</sup> )		2900 (at 439 nm in hexane) Chapman & Haxo (1963) 3010 (at 440 nm in petroleum ether) Schwieter <i>et al.</i> (1965)
Molar extinction coefficient: $\epsilon$ (l mol <sup>-1</sup> cm <sup>-1</sup> )		156 x 10 <sup>3</sup> (at 439 nm in hexane) 162 x 10 <sup>3</sup> (at 440 nm in petroleum ether) Calculated from E <sub>1 cm</sub> <sup>1%</sup> above
UV-vis spectra:		

Solvent	Maxima (nm)			Band ratio %III:II	Reference
	I	II	III		
Ethanol	417	440	470		Chapman & Haxo (1963)
Petroleum ether	416	440	470		Schwieter <i>et al.</i> (1965)
Benzene	425	451	482		Chapman & Haxo (1963)
Hexane	415	439	469	101	Bjørnland <i>et al.</i> (1989)
HPLC Eluant	420	443	476	79	SCOR WG 78; Wright <i>et al.</i> (1991) method

Alteration products:	<i>Cis</i> -isomers
Culture from which SCOR data were obtained:	<i>Pelagococcus subviridis</i> (chrysophyte)
Additional reference(s):	Goodwin (1980); Bjørnland <i>et al.</i> (1989)