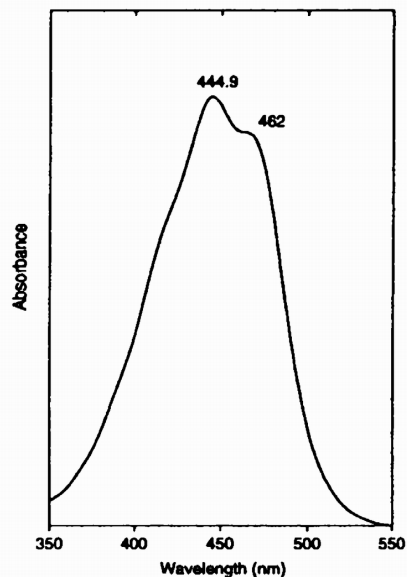


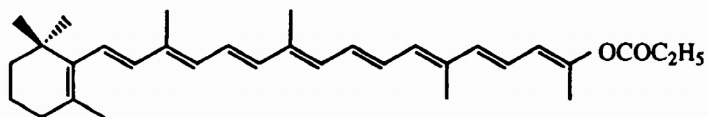
Ethyl-apo-8'-carotenoate

HPLC peak 38

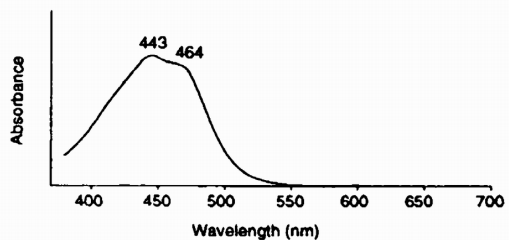
Standard spectrum in reference solvent: acetone



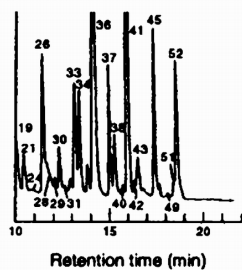
Molecular structure



Diode array spectrum in Repeta eluant



HPLC: Ethyl-apo-8'-carotenoate, peak 38 Pigment mixture



Ethyl-apo-8'-carotenoate

Property

Data

Name:	(Trivial) (IUPAC)	Ethyl-apo-8'-carotenoate Ethyl 8'-apo-β-caroten-8'-oate
SCOR abbreviation:		Et-8-carot
Occurrence:		Synthetic (possible internal standard)
Colour:		Orange
Molecular formula:		C ₃₂ H ₄₄ O ₂
Molecular weight:		460.71
Specific extinction coefficient: E _{1%} ^{1cm} (100 ml g ⁻¹ cm ⁻¹)		2362 (at 448 nm in petroleum ether) Calculated from ε below
Molar extinction coefficient: ε (l mol ⁻¹ cm ⁻¹)		108.8 × 10 ³ (at 448 nm in petroleum ether) Isler & Schudel (1963)

UV-vis spectra:

Solvent	Maxima (nm)			Band ratio %III:II	Reference
	I	II	III		
Acetone		445	(462)	0	SCOR WG 78 data
HPLC Eluant		443	(464)	0	Repeta (unpublished data)

Alteration products:

Origin: Synthetic (Fluka Chemie)

Additional reference(s): Vetter *et al.* (1971)