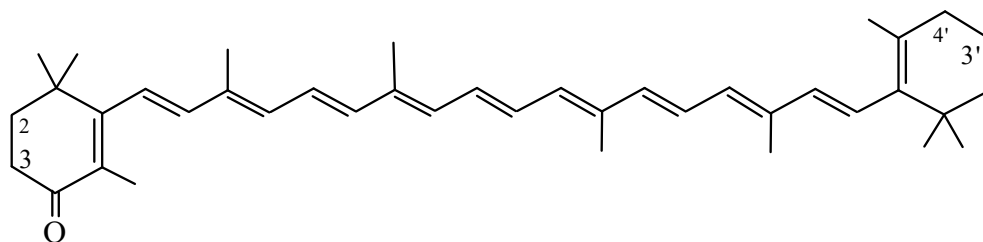




>>Entry Name: Echinenone

Synonym(s): β,β -Caroten-4-one. Myxoxanthin. Aphanine. Echininone



CAS Registry Number: 432-68-8

Related CAS Registry Numbers(s): 4339-77-9

Type of Compound Code(s): VS9400

Molecular Formula: $C_{40}H_{54}O$

Molecular Weight: 550.866

Accurate Mass: 550.417465

Percentage Composition: C 87.22%; H 9.88%; O 2.90%

Biological Source: Constit. of echinoidae and crustacea

Physical Description: Violet cryst. (petrol)

Melting Point: Mp 178-179°

Sigma: E5643

>>Derivative: 4-Alcohol

Synonym(s): **Isocryptoxanthin.** β,β -Caroten-4-ol. 4-Hydroxy- β -carotene. Myxoxanthol. Aphanol

CAS Registry Number: 472-62-8

Type of Compound Code(s): VS9400

Molecular Formula: $C_{40}H_{56}O$

Molecular Weight: 552.882

Accurate Mass: 552.433115

Percentage Composition: C 86.90%; H 10.21%; O 2.89%

Biological Source: Isol. from blue-green algae

>>Derivative: 2-Hydroxy

Synonym(s): **2-Hydroxyechinenone.** 2-Hydroxy- β,β -caroten-4-one

CAS Registry Number: 100459-63-0

Type of Compound Code(s): VS9400

Molecular Formula: $C_{40}H_{54}O_2$

Molecular Weight: 566.865

Accurate Mass: 566.41238

Percentage Composition: C 84.75%; H 9.60%; O 5.64%

Biological Source: Isol. from *Daphnia magna*

>>Derivative: 3S-Hydroxy

Synonym(s): **3-Hydroxyechinenone**

CAS Registry Number: 72843-12-0

Type of Compound Code(s): VS9400

Molecular Formula: $C_{40}H_{54}O_2$

Molecular Weight: 566.865

Accurate Mass: 566.41238

Percentage Composition: C 84.75%; H 9.60%; O 5.64%

Biological Source: Isol. from *Adonis annua*, *Rhizobium lupini*, fish eggs, algae

Physical Description: Prisms (Me_2CO /petrol)

Melting Point: Mp 155-157°

UV: [neutral] λ_{max} 457 () (petrol) [neutral] λ_{max} 466 () (EtOH)