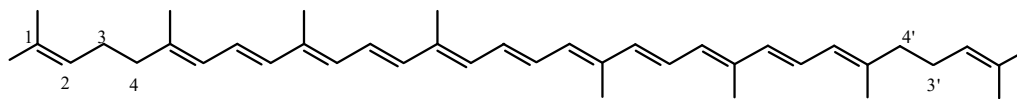




>>Entry Name: Lycopene

ENTRY UNDER REVIEW

Synonym(s): ψ,ψ -Carotene, 9CI. Lycopine. Solanorubin. Dicarotene. E160



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

Molecular Weight: 536.882

Accurate Mass: 536.4382

Percentage Composition: C 89.49%; H 10.51%

Use/Importance: Used as food colouring

>>Variant: (all-*E*)-form

CAS Registry Number: 502-65-8

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

Molecular Weight: 536.882

Accurate Mass: 536.4382

Percentage Composition: C 89.49%; H 10.51%

Biological Source: Constit. of tomatoes and many other fruits. Also occurs in bacteria and fungi

Physical Description: Long red needles or prisms (petrol)

Melting Point: Mp 175°

Sigma: L9879

>>Derivative: 1,2*S*-Epoxide

Synonym(s): 1,2-Epoxy-1,2-dihydrolycopene. 1,2-Epoxy-1,2-dihydro- ψ,ψ -carotene

CAS Registry Number: 51599-09-8

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 tomatoes

>>Derivative: 5,6-Epoxide

Synonym(s): 5,6-Epoxy-5,6-dihydrolycopene. 5,6-Epoxy-5,6-dihydro- ψ,ψ -carotene

CAS Registry Number: 51599-10-1

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: Constit. of tomatoes

>>Derivative: 3,4-Didehydro

Synonym(s): Monodehydrolycopene. 3,4-Dehydrolycopene. 3,4-Didehydro- ψ,ψ -carotene

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

Molecular Weight: 534.867

Accurate Mass: 534.42255

Percentage Composition: C 89.82%; H 10.18%

Biological Source: Isol. from *Neurospora* spp., *Lycogala epidendron* and other microorganisms

Physical Description: Fine violet needles (C_6H_6 /petrol)

Melting Point: Mp 196°

>>Variant: (7*Z*,7'*Z*,9*Z*,9'*Z*)-form

Synonym(s): Prolycopene

CAS Registry Number: 2361-24-2