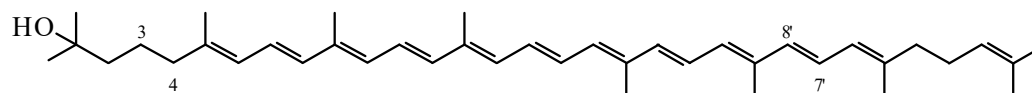




>>Entry Name: Rhodopin

Synonym(s): 1,2-Dihydro- $\psi,\psi$ -caroten-1-ol. *OH*-Lycopine. 1,2-Dihydro-1-hydroxylycopine



CAS Registry Number: 105-92-0

Molecular Formula:  $C_{40}H_{58}O$

Molecular Weight: 554.898

Accurate Mass: 554.448765

Percentage Composition: C 86.58%; H 10.53%; O 2.88%

Biological Source: Constit. of *Rhodomicrobium vannielii* and other purple bacteria

Physical Description: Purple cryst. ( $C_6H_6$ /petrol)

Melting Point: Mp 182-183°

>>Derivative: 7',8'-Dihydro

Synonym(s): Chloroxanthin. *OH*-Neurosporin. Hydroxyneurosporene. 1-Hydroxy-1,2,7',8'-tetrahydrolycopene. 1,2,7',8'-Tetrahydro- $\psi,\psi$ -caroten-1-ol

CAS Registry Number: 2104-74-7

Molecular Formula:  $C_{40}H_{60}O$

Molecular Weight: 556.913

Accurate Mass: 556.464415

Percentage Composition: C 86.27%; H 10.86%; O 2.87%

Biological Source: Isol. from *Rhodopseudomonas spheroides*, *Rhodopseudomonas gelatinosa* and *Rhodopseudomonas rubrum*

Physical Description: Orange-red cryst. (petrol)

Melting Point: Mp 140-141°

>>Derivative: 3,4-Didehydro, Me ether

>>Derivative: 7',8',11',12'-Tetrahydro

Synonym(s): 1,2,7',8',11',12'-Hexahydro- $\psi,\psi$ -caroten-1-ol. 1-Hydroxy-1,2,7',8',11',12'-hexahydrolycopene. *OH*-7,8,11,12-Tetrahydrolycopene

CAS Registry Number: 28282-10-2

Molecular Formula:  $C_{40}H_{62}O$

Molecular Weight: 558.929

Accurate Mass: 558.480065

Percentage Composition: C 85.96%; H 11.18%; O 2.86%

Source/Synthesis: Isol. from diphenylamine-inhibited cultures of *Rhodospirillum rubrum*

UV: [neutral]  $\lambda_{\max}$  375 (); 396 (); 420 () (petrol)

>>Derivative: 7,7',8,8',11',12'-Hexahydro

Synonym(s): 1,2,7,7',8,8',11',12'-Octahydro- $\psi,\psi$ -caroten-1-ol. 1-Hydroxy-1,2-dihydrophytofluene

CAS Registry Number: 29753-46-6

Molecular Formula:  $C_{40}H_{64}O$

Molecular Weight: 560.945

Accurate Mass: 560.495715

Percentage Composition: C 85.65%; H 11.50%; O 2.85%

Source/Synthesis: Isol. from diphenylamine-inhibited cultures of *Rhodospirillum rubrum*

UV: [neutral]  $\lambda_{\max}$  331 (); 347 (); 366 () (petrol)

>>Derivative: 7,7',8,8',11',12'-Hexahydro, Me ether

Synonym(s): 1,2,7,7',8,8',11',12'-Octahydro-1-methoxy- $\psi,\psi$ -carotene. 1-Methoxy-1,2-dihydrophytofluene. Methoxyphytofluene (incorr.)

CAS Registry Number: 29391-06-8

Molecular Formula:  $C_{41}H_{66}O$

Molecular Weight: 574.972

Accurate Mass: 574.511365

Percentage Composition: C 85.65%; H 11.57%; O 2.78%

Source/Synthesis: Isol. from diphenylamine-inhibited *Rhodospirillum rubrum* culture

UV: [neutral]  $\lambda_{\max}$  331 (); 348 (); 367 () (petrol)

Other Data: Tentative struct.