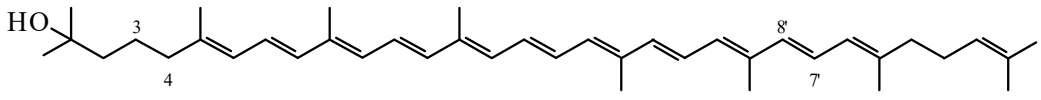
>>**Entry Name: Rhodopin**

Synonym(s): 1,2-Dihydro-ψ,ψ-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-ψ,ψ-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-ψ,ψ-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] λ_{max} 375 (); 396 (); 420 () (petrol)

>>**Derivative:** 7,7',8,8',11',12'-Hexahydro
Synonym(s): 1,2,7,7',8,8',11',12'-Octahydro-ψ,ψ-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] λ_{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-ψ,ψ-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] λ_{max} 331 (); 348 (); 367 () (petrol)
Other Data: Tentative struct.