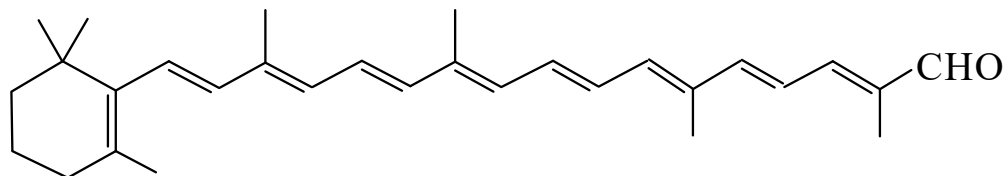




>>Entry Name: 8'-Apo-β-caroten-8'-al

ENTRY UNDER REVIEW

Synonym(s): β-Carotinal. β-Apo-2-carotinal



CAS Registry Number: 1107-26-2

Molecular Formula: C₃₀H₄₀O

Molecular Weight: 416.645

Accurate Mass: 416.307915

Percentage Composition: C 86.48%; H 9.68%; O 3.84%

Biological Source: Constit. of orange peel, spinach and egg yolks. Oxidn. of β-Carotene [JSX51-P](#)

Use/Importance: Colour additive

Physical Description: Violet cryst. (MeOH)

Melting Point: Mp 139°

Fluka: 10829

Sigma: A5303

>>Derivative: 8'-Alcohol

Synonym(s): 8'-Apo-β-caroten-8'-ol

Molecular Formula: C₃₀H₄₂O

Molecular Weight: 418.661

Accurate Mass: 418.323565

Percentage Composition: C 86.07%; H 10.11%; O 3.82%

Biological Source: Constit. of *Aplysia kurodai*

>>Derivative: 8'-Carboxylic acid

Synonym(s): 8'-Apo-β-caroten-8'-oic acid. β-Apo-8'-carotenoic acid

CAS Registry Number: 1962-15-8

Molecular Formula: C₃₀H₄₀O₂

Molecular Weight: 432.645

Accurate Mass: 432.30283

Percentage Composition: C 83.29%; H 9.32%; O 7.40%

Biological Source: Isol. from *Staphylococcus aureus*

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 189-190°

Other Data: λ_{max} 448 nm (petrol)

>>Derivative: 8'-Carboxylic acid, Me ester

CAS Registry Number: 4273-73-8

Molecular Formula: C₃₁H₄₂O₂

Molecular Weight: 446.672

Accurate Mass: 446.31848

Percentage Composition: C 83.36%; H 9.48%; O 7.16%

Biological Source: Isol. from *Staphylococcus aureus*

Physical Description: Red cryst. (petrol or Et₂O/petrol)

Melting Point: Mp 136-137°

Other Data: λ_{max} 445, 471 nm (petrol)