



Physical Description: Yellow prisms + 3H₂O

Melting Point: Mp 81-82°

>>**Derivative:** Sulfate (2:1)

Synonym(s): Quinine sulfate, JAN, USAN. Quinanium. Quine. Quinite. FEMA 2975

CAS Registry Number: 804-63-7

Extra CAS Registry Numbers(s): 549-56-4

Melting Point: Mp 205°

Optical Rotation: $[\alpha]_D^{15} -235$ (H₂SO₄ aq.)

Other Data: Forms a dihydrate and an octahydrate. Component of Quinamin

>>**Derivative:** Methiodide (1:2)

Physical Description: Yellow plates + 3H₂O

Melting Point: Mp 167-168 dec.°

Optical Rotation: $[\alpha]_D^{18} -151$ (2M H₂SO₄)

>>**Derivative:** Compd. with ascorbic acid (1:2)

Synonym(s): Quinine ascorbate, USAN. Quinine biascorbate

CAS Registry Number: 146-40-7

Use/Importance: Smoking deterrent

>>**Derivative:** Gluconate salt (1:1)

CAS Registry Number: 4325-25-1

Melting Point: Mp 159-161° (anhydr.)

Other: PB Q00450

>>**Derivative:** Ethylcarbonate

Synonym(s): Quinine ethylcarbonate, JAN. Euquinine. Tasteless Quinine

CAS Registry Number: 83-75-0

Molecular Formula: C₂₃H₂₈N₂O₄

Molecular Weight: 396.485

Accurate Mass: 396.204908

Percentage Composition: C 69.68%; H 7.12%; N 7.07%; O 16.14%

Use/Importance: Antimalarial

Physical Description: Fine needles

Melting Point: Mp 90-92°

Optical Rotation: $[\alpha]_D^{20} -43.7$

Calculated Log P Data: Log P 4.22 (uncertain value) (calc)

>>**Derivative:** Ac

Molecular Formula: C₂₂H₂₆N₂O₃

Molecular Weight: 366.459

Accurate Mass: 366.194343

Percentage Composition: C 72.11%; H 7.15%; N 7.64%; O 13.10%

Physical Description: Cryst. (petrol)

Melting Point: Mp 116-117°

Optical Rotation: $[\alpha]_D^{15} -54.3$ (EtOH)

>>**Derivative:** Benzoyl

Molecular Formula: C₂₇H₂₈N₂O₃

Molecular Weight: 428.53

Accurate Mass: 428.209993

Percentage Composition: C 75.68%; H 6.59%; N 6.54%; O 11.20%

Physical Description: Prisms (Et₂O)

Melting Point: Mp 139°

Optical Rotation: $[\alpha]_D^{17} +121.6$ (EtOH)

Calculated Log P Data: Log P 5.48 (uncertain value) (calc)