Physical Description: Yellow prisms + $3H_2O$
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 (H_2SO_4 aq.)
Other Data: Forms a dihydrate and an octahydrate. Component of Quinamin

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

Physical Description: Yellow plates + $3H_2O$
Melting Point: Mp 167-168 dec.°
Optical Rotation: $[\alpha]_D^{18}$ –151 (2*M* H_2SO_4)

>>**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: $C_{23}H_{28}N_2O_4$
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: $C_{22}H_{26}N_2O_3$
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: $C_{27}H_{28}N_2O_3$
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 (Et_2O)
Melting Point: Mp 139°
Optical Rotation: $[\alpha]_D^{17}$ +121.6 (EtOH)
Calculated Log P Data: Log P 5.48 (uncertain value) (calc)