



CAS Registry Number: 39026-39-6

Molecular Formula: $C_{40}H_{59}FO_6$

Molecular Weight: 654.901

Accurate Mass: 654.429568

Percentage Composition: C 73.36%; H 9.08%; F 2.90%; O 14.66%

Use/Importance: Antiinflammatory agent

Calculated Log P Data: Log P 9.52 (uncertain value) (calc)

>>Derivative: 21-Phosphate

Synonym(s): Dexamethasone phosphate. Many other names

CAS Registry Number: 312-93-6

Molecular Formula: $C_{22}H_{30}FO_8P$

Molecular Weight: 472.446

Accurate Mass: 472.166235

Percentage Composition: C 55.93%; H 6.40%; F 4.02%; O 27.09%; P 6.56%

Use/Importance: Antiinflammatory agent

>>Derivative: 21-Phosphate, di-Na salt

Synonym(s): Dexamethasone sodium phosphate, USAN. Corson. Dalalone. Decadron

CAS Registry Number: 2392-39-4

Physical Description: Cryst.

Melting Point: Mp 233-235°

Optical Rotation: $[\alpha]_D +57$ (H₂O)

Fluka: 31379

Sigma: D1159

>>Derivative: 21-(4-Pyridinecarboxylate)

Synonym(s): Dexamethasone isonicotinate. Voren

CAS Registry Number: 2265-64-7

Molecular Formula: $C_{28}H_{32}FNO_6$

Molecular Weight: 497.562

Accurate Mass: 497.221367

Percentage Composition: C 67.59%; H 6.48%; F 3.82%; N 2.82%; O 19.29%

Use/Importance: Antiinflammatory agent

Physical Description: Cryst.

Melting Point: Mp 256°

Optical Rotation: $[\alpha]_D^{27} +194.5$ (dioxan)

Calculated Log P Data: Log P 2.32 (uncertain value) (calc)

>>Derivative: 21-Sulfate

CAS Registry Number: 7793-27-3

Molecular Formula: $C_{22}H_{29}FO_8S$

Molecular Weight: 472.531

Accurate Mass: 472.156718

Percentage Composition: C 55.92%; H 6.19%; F 4.02%; O 27.09%; S 6.79%

Use/Importance: Antiinflammatory agent

Calculated Log P Data: Log P 1.45 (uncertain value) (calc)

>>Derivative: 21-Sulfate, Na salt

Synonym(s): Dexamethasone sodium sulfate

CAS Registry Number: 466-11-5

Melting Point: Mp 207-209°

Optical Rotation: $[\alpha]_D +95$ (H₂O)