

Warfarin

Identity

Coumarin based compound.

Common name: warfarin, warfarine, coumadin, coumafene

IUPAC: 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyran-2-one

Synonyms 4-Hydroxy-3-(3-oxo-1-phenylbutyl)coumarin; 3-(1'-Phenyl-2'-acetylethyl)-4-hydroxycoumarin

CAS Number: 81-81-2

Molecular Formula C₁₉H₁₆O₄

Molecular Weight 308.33

CAS Registry Number 81-81-2

EINECS 201-377-6

Properties

Melting point 162-164 °C

Boiling point 356 °C

Water solubility Practically insoluble

TECHNICAL GRADE PRODUCT

Warfarin Technical 98% powerd

Warfarin sodium salt liquid 20% p/v

Technical Active Ingredient for bait formulation.

Marketed as a pesticide against rats and mice, and is still popular for this purpose, although more potent poisons such as brodifacoum have since been developed. A few years after its introduction, warfarin was found to be effective and relatively safe for preventing thrombosis and embolism (abnormal formation and migration of blood clots) in many disorders. It was approved for use as a medication in the early 1950s, and has remained popular ever since; warfarin is the most widely prescribed anticoagulant drug in North America. Despite its effectiveness, treatment with warfarin has several shortcomings. Many commonly used medications interact with warfarin, as do some foods and its activity has to be monitored by frequent blood testing for the international normalized ratio (INR) to ensure an adequate yet safe dose is taken.



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Warfarin is a synthetic derivative of coumarin, a chemical found naturally in many plants, notably woodruff (*Galium odoratum*, Rubiaceae), and at lower levels in licorice, lavender, and various other species. Warfarin and related coumarins decrease blood coagulation by inhibiting vitamin K epoxide reductase, an enzyme that recycles oxidated vitamin K to its reduced form after it has participated in the carboxylation of several blood coagulation proteins, mainly prothrombin and factor VII. For this reason, drugs in this class are also referred to as vitamin K antagonists

Hazard Symbols symbol Hazard Symbols symbol T
Risk Codes R61;R48/25;R52/53
Safety Description S52;S45;S61
Transport Information UN 2588/2811

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