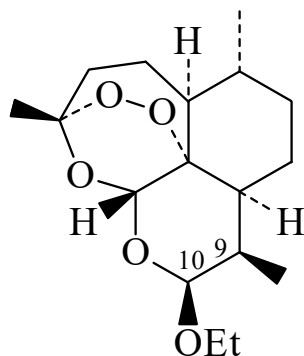




>>Entry Name: Arteether

Synonym(s): 10-Ethoxydecahydro-3,6,9-trimethyl-3,12-epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin, 9Cl. α -Arteether



CAS Registry Number: 75887-54-6

Related CAS Registry Numbers(s): 123930-81-4 131175-88-7

Molecular Formula: $C_{17}H_{28}O_5$

Molecular Weight: 312.405

Accurate Mass: 312.193675

Percentage Composition: C 65.36%; H 9.03%; O 25.61%

Source/Synthesis: Semisynthetic deriv. of Artemisinin [JTB75-A](#)

Use/Importance: Antimalarial agent

Physical Description: Cryst. (hexane)

Melting Point: Mp 80-82°

Optical Rotation: $[\alpha]_D^{21} +154.5$ (c, 1.0 in $CHCl_3$)

>>Derivative: 9-Epimer

CAS Registry Number: 143060-33-7

Physical Description: Prisms

Melting Point: Mp 73°

Optical Rotation: $[\alpha]_D^{22} +156$ (c, 0.1 in $CHCl_3$)

>>Derivative: 10-Epimer

Synonym(s): β -Arteether

CAS Registry Number: 82534-75-6

Molecular Formula: $C_{17}H_{28}O_5$

Molecular Weight: 312.405

Accurate Mass: 312.193675

Percentage Composition: C 65.36%; H 9.03%; O 25.61%

Use/Importance: Antimalarial agent

Optical Rotation: $[\alpha]_D^{21} -2.8$ (c, 1.0 in $CHCl_3$)

References:

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Prakash, O. *et al.*, *Indian J. Chem., Sect. B*, 1990, **29**, 103, (*cmr, pmr*)
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