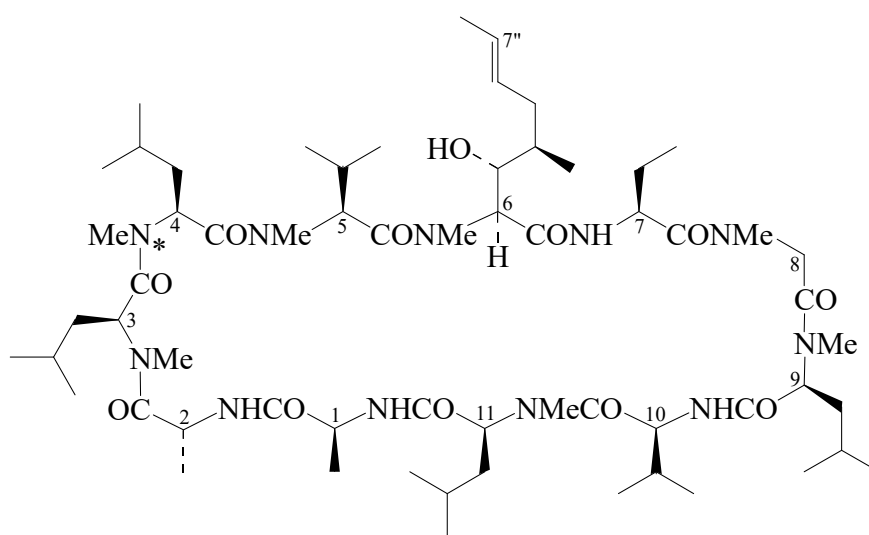




>>Entry Name: Cyclosporin, 9CI



Cyclosporin A

CAS Registry Number: 79217-60-0

General Statement: The structs. of the various compds. in the cyclosporin complex can be derived from the CA names given below under each heading

>>Variant: Cyclosporin A

Synonym(s): Ciclosporin, INN, JAN. Cyclosporin, BAN. Cyclosporine, USAN. Cyclorin. Neoral. Ramihyphin A. Sandimmun. Sandimmune. OL 27-400. S 7481F1. CyA. Antibiotic S 7481F1

CAS Registry Number: 59865-13-3

Molecular Formula: C₆₂H₁₁₁N₁₁O₁₂

Molecular Weight: 1202.625

Accurate Mass: 1201.841369

Percentage Composition: C 61.92%; H 9.30%; N 12.81%; O 15.96%

Biological Source: Metab. of *Trichoderma inflatum* (previously *Trichoderma polysporum*). Also isol. from *Fusarium solani* and *Tolypocladium sinense*

Biological Use/Importance: Possesses antifungal activity and immunosuppressive props. with a specific action on T-lymphocytes. Used clinically as an immunosuppressant after transplant surgery

Physical Description: Needles (Me₂CO)

Development Status: Marketed drug. Launched 1983. Worldwide 33rd best selling prescription drug (\$1.21 bn) (Novartis) (2000, Pharma Business)

Melting Point: Mp 148-151°

Optical Rotation: [α]_D²⁰ -244 (c, 0.6 in CHCl₃)

Experimental Log P Data: Log P 2.92 (pH 7.4) (exp)

Hazard & Toxicity: Systemic effects reported when used therapeutically (e.g. nephrotoxic). LD₅₀ (rat, orl) 1489 mg/kg. Exp. reprod. effects

Fluka: 30024

Sigma: C1832

>>Derivative: N⁹-De-Me

Synonym(s): 9-L-Leucinecyclosporin A

CAS Registry Number: 89270-23-5

Molecular Formula: C₆₁H₁₀₉N₁₁O₁₂

Molecular Weight: 1188.599

Accurate Mass: 1187.825719

Percentage Composition: C 61.64%; H 9.24%; N 12.96%; O 16.15%

Biological Source: Prod. by *Tolypocladium terricola*

Physical Description: Powder

Melting Point: Mp 142°

Optical Rotation: [α]_D²⁵ -220 (CHCl₃)