

Product Name:	Atovaquone
Product Number:	A099
CAS Number:	95233-18-4
Molecular Formula:	C ₂₂ H ₁₉ ClO ₃
Molecular Weight:	366.837
Form:	Powder
Appearance:	Yellow powder
Solubility:	Freely soluble in N-methyl-2-pyrrolidone and in tetrahydrofuran; slightly soluble in ethyl acetate; insoluble in water
Source:	Synthetic
Water Content (Karl Fischer):	Not more than 1.0%
Storage Conditions:	-20°C
Description:	Atovaquone is a hydroxynaphthoquinone antimicrobial compound with antipneumocystic and anti-parasitic properties.
Mechanism of Action:	Atovaquone inhibits cytochrome bc ₁ of the electron transport system leading to failure of mitochondrial function.
Spectrum:	Atovaquone is active against <i>Plasmodium spp</i> , <i>Pneumocystis carinii</i> , and <i>Toxoplasma gondii</i> <i>in vivo</i> and <i>in vitro</i> .
References:	Looareesuwan, Sornchai, Jeffrey D. Chulay, Craig J. Canfield, and David B. Hutchinson. "MALARONE (ATOVAQUONE AND PROGUANIL HYDROCHLORIDE): A REVIEW OF ITS CLINICAL DEVELOPMENT FOR TREATMENT OF MALARIA." The American Society of Tropical Medicine and Hygiene 60.4 (1999): 533-41. Nixon, G. L., D. M. Moss, A. E. Shone, D. G. Laloo, N. Fisher, P. M. O'Neill, S. A. Ward, and G. A. Biagini. "Antimalarial Pharmacology and Therapeutics of Atovaquone." <i>Journal of Antimicrobial Chemotherapy</i> 68.5 (2013): 977-85.