



## TECHNICAL DATA SHEET

0319-TDS-ENG-2019

ARTEMISININE (ARTEMISIA ANNUA)		
DESCRIPTION DCI: ARTESUNATE		DESCRIPTION DOE: ARTESUNATO
CAS N°: 63968-64-9	EC N°: 700-290-5	AEMPS CODE: 8285A
MOL. WEIGHT: 282.14	MOL. FORMULA: C <sub>15</sub> H <sub>22</sub> O <sub>5</sub>	ARTICLE CODE: 0319

ATTRIBUTES	SHOULD BE
Appearance	Colorless needle crystals
Taste	Bitter
Identification (1)	Complies
Identification (2)	Complies
Identification (3)	Complies
Identification (4)	Complies
Melting point	150 - 153 °C
Optical rotation	+75 / +78
Related substances	
Total impurities	= < 0.25 %
Loss on drying	= < 0.5 %
Sulfated ash	= < 0.1 %
Assay	98.0 - 102.0 %
Residual solvents	
Methanol	= < 5000 ppm
Microbiological control	
TAMC	= < 1000 CFU/g
TYMC	= < 100 CFU/g
Escherichia coli	Absence/1g

### COMPLIES WITH

Manufacturer specifications

### STORAGE

Store in a tightly closed container. Store in cool, dry and well-ventilated area.

### REMARKS

Artemisinin is subjected to the requirements of the ICH Q3D "Elemental Impurities" guideline.

Certificates of residual solvents, allergens, non-GMO and BSE-TSE are available upon request.

### Properties

ARTEMISININE and its derivatives are a family of drugs that have the fastest action of all common medicines against malaria caused by falciparum. Treatments that contain derivatives of the ARTEMISININE are now the standard treatment worldwide for malaria. The main component of ARTEMISININE is isolated from the *Artemisia annua* plant, an herb described in traditional Chinese medicine.