

SHANDONG OCTAGON CHEMICALS LIMITED

CERTIFICATE OF ANALYSIS

Product name	<u>Vitamin K1</u> 84-80-0		
Batch No.	20210601	Mfg. date	2021.06.12
Rep. Date	2021.06.18	Exp. date	2023.06.11
Packing	1kg/bottle	Batch Size	176.2KG
Test Items	Standards: Enterprise		Results
Appearance	A yellow to orange clear viscous liquid, odorless or almost odorless, easy to decompose when exposed to light		Conforms
Solubility	Soluble in chloroform, ether or vegetable oil. Slightly soluble in ethanol but insoluble in water		conforms
Identification	IR/UV		Conforms
Refractive index	1.523~1.526		1.526
Limit of menadione	No purple or blue color is produced		Conforms
Z-Isomer content	NMT21%		11.26%
Assay	97.0%~103.0%		98.43%
Conclusion	It meets the requirements of Enterprise standards		
Storage	Store in a well-closed container at ambient temperature		
Prepared by: LI	Reviewed by: WEI	Released by: Zhang	