

Version Molecular weight **Quality Test / Release Date** Molecular Formula CAS No Linear Formula Flash Point (°C)

00 270.36 06/22/2021 C18 H22 O2 53-16-7

Certificate of Analysis

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to human or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	11784	Quality Test / Release Date	06/22/2021
Lot Number	A0431326	Suggested retest date	06/22/2026
Description	Estrone,99+%		
Country of Origin	CHINA		
Declaration of Origin	synthetic		

BSE/TSE	
Chemical	

Result name	Specifications	Test Value
Appearance (Color)	White to almost white	White
Appearance (Form)	Powder or crystals	Powder
Infrared spectrum	Conforms	Conforms
Melting point	258°C to 261°C	259.1°C
HPLC	>=99.0 % (on dried substance)	99.81 % (on dried substance)
Loss on drying	=<0.5 % (105°C, 3 hrs)	0.09 % (105°C, 3 hrs)
Sulfated ash	=<0.5 %	0.09 %
Specific optical rotation	+158° to +165° (20°C, 589 nm) (c=1, dioxane)	+161.3° (20°C, 589 nm) (c=1, dioxane)
Clarity of solution	passes test	passes test
Additional info	limit of equilenin and equilin: passes test	limit of equilenin and equilin: passes test



C. Wygaerts, QA Manager

Acros Organics

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