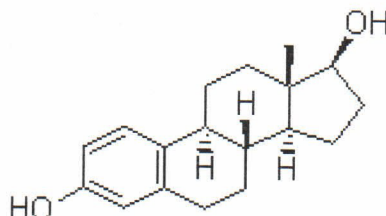


Batch no 80806702502002
Mf date Feb 10 2025
Retest Feb 09 2029

Molecular Structure



Molecular Formula $C_{18}H_{24}O_2$

Molecular Weight 272.38

CAS Registry Number 50-28-2

Apr 17 2025

Tests	Specifications	Results
Appearance	White or off-white crystalline powder or colourless crystals	White crystalline powder
Solubility	Practically insoluble in water, soluble in alcohol, in acetone, in dioxane, in chloroform, and in solutions of alkali hydroxides; sparingly soluble in vegetable oils.	Conforms
Identification	IR Absorption at 280 nm $\leq 3.0\%$ (oab)	Positive 0.2%
Melting range	173 ~ 179°C	177.5 ~ 178.5°C
Specific rotation	+76 ~ +83°	+80.2°
Water	$\leq 3.5\%$	3.3%
Related substances	Any individual impurity $\leq 0.5\%$ Total impurities $\leq 1.0\%$	RRT 0.87: 0.1% RRT 1.17: 0.06% 0.17%
Residue on ignition	$\leq 0.1\%$	0.06%
Residual solvents	Methanol ≤ 3000 ppm Ethanol ≤ 5000 ppm Acetone ≤ 5000 ppm Acetic acid ≤ 5000 ppm	ND 506 ppm ND ND
Particle size	d(0.9) < 10 um	Conforms
Assay (oab)	97.0 ~ 103.0% of $C_{18}H_{24}O_2$	99.4%
Packaging & storage	Preserve in tight, light-resistant containers. Store at 25°C, excursions permitted between 15 ~ 30°C	
Conclusion	Material complies with USP43	