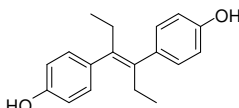




Certificate of Analysis

Axon Catalogue ID: 3320 **Batch Number:** 1
Product Name: Diethylstilbestrol
Alternative Name(s): Stilbestrol; DES
IUPAC Name: (E)-4,4'-(Hex-3-ene-3,4-diyl)diphenol

Structure:



Amount:

CAS number(s): 56-53-1
Molecular Formula: C₁₈H₂₀O₂ **Molecular Weight:** 268.35
Batch Molecular Formula: C₁₈H₂₀O₂ **Batch Molecular Weight:** 268.35
Appearance: White solid **Observed mp:** 173.1 - 173.7 °C
TLC (R_f): 0.5 DCM/MeOH (20:1)
Chemical Purity: 99.9%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 80.56, H 7.51, N 0.00; Found: C 80.51, H 7.31, N <0.10
Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	26.7	99.4	
	EtOH			Not Tested

Remarks: Suspected to be eletrostatic.

QC Date: 10-1-2021

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only