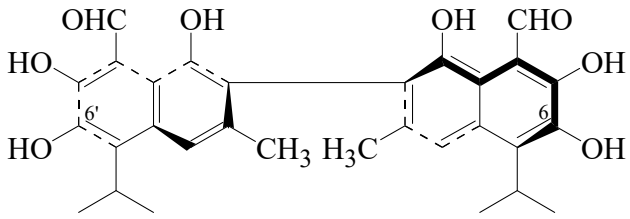
>>**Entry Name: Gossypol**
Synonym(s): 1,1',6,6',7,7'-Hexahydroxy-3,3'-dimethyl-5,5'-bis(1-methylethyl)-[2,2'-binaphthalene]-8,8'-dicarboxaldehyde, 9CI. Thespesin



Absolute Configuration

CAS Registry Number: 303-45-7
Related CAS Registry Numbers(s): 62770-38-1

Molecular Formula: $C_{30}H_{30}O_8$
Molecular Weight: 518.562
Accurate Mass: 518.19407
Percentage Composition: C 69.49%; H 5.83%; O 24.68%

Biological Use/Importance: Exhibits antifertility activity. Antispermatogenic props. Antineoplastic agent, potential treatment for gliomas. Shows anti-HIV activity
Development Status: Has undergone widespread trials in Peoples Republic of China. Toxicity and poor therapeutic potential has precluded further interest as a male contraceptive
Solubility: BERDY SOL: Poorly sol. H_2O
Calculated Log P Data: Log P 7.06 (uncertain value) (calc)
UV: [neutral] λ_{max} 237 (ε 60250); 277 (ε 26300); 375 (ε 15850) (MeOH) (Berdy)

Sigma: G8761

>>**Variant:** (+)-form

CAS Registry Number: 20300-26-9

Molecular Formula: $C_{30}H_{30}O_8$
Molecular Weight: 518.562
Accurate Mass: 518.19407
Percentage Composition: C 69.49%; H 5.83%; O 24.68%
Biological Source: Constit. of *Azanza* spp., *Cienfuegosia* sp., *Gossypium* spp., *Montezuma* sp. and *Thespesia* sp.
Physical Description: Pale yellow needles (petrol), deep-yellow prisms + Me_2CO (Me_2CO), large elongated plates (Me_2CO aq.)
Melting Point: Mp 181-183°
Optical Rotation: $[\alpha]_D^{19}$+445 (c, 0.15 in $CHCl_3$)
Hazard & Toxicity: LD_{50} (mus, ipr) 35 mg/kg. Exp. reprod. effects

>>**Derivative:** Hexa-Me ether

CAS Registry Number: 17273-30-2
Melting Point: Mp 242-244°
Optical Rotation: $[\alpha]_D$ +177 ($CHCl_3$)

>>**Variant:** (–)-form

CAS Registry Number: 90141-22-3

Molecular Formula: $C_{30}H_{30}O_8$
Molecular Weight: 518.562
Accurate Mass: 518.19407
Percentage Composition: C 69.49%; H 5.83%; O 24.68%
Biological Source: Constit. of *Gossypium arboreum*, *Gossypium barbadense* and *Gossypium hirsutum*
Physical Description: Cryst.
Melting Point: Mp 178-183°
Optical Rotation: $[\alpha]_D^{26}$–360 (86% ee)
Other Data: More pharmacol. active isomer