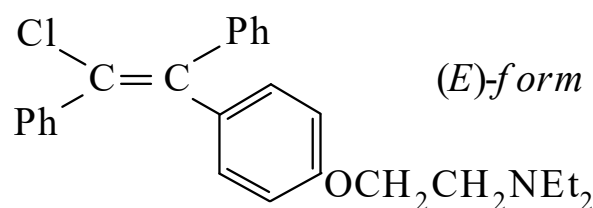




>>Entry Name: Clomifene, INN

Synonym(s): 2-[4-(2-Chloro-1,2-diphenylethenyl)phenoxy]-*N,N*-diethylethanamine, 9Cl. 2-[*p*-(2-Chloro-1,2-diphenylvinyl)phenoxy]triethylamine, 8Cl. **Clomiphene**, BAN



CAS Registry Number: 911-45-5

Molecular Formula: C₂₆H₂₈ClNO

Molecular Weight: 405.966

Accurate Mass: 405.185941

Percentage Composition: C 76.92%; H 6.95%; Cl 8.73%; N 3.45%; O 3.94%

Melting Point: Mp 116.5-118°

Calculated Log P Data: Log P 7.07 (uncertain value) (calc)

Other Data: Mainly used as mixture of isomers

>>Derivative: Citrate (1:1)

Synonym(s): **Clomiphene citrate**, USAN. Clomid. **Serophene**‡. NSC 35770

CAS Registry Number: 50-41-9

Hazard & Toxicity: Human (male and female) reprod. effects. Human teratogenic effects (disputed). LD₅₀ (rat, orl) 5750 mg/kg

Sigma: C6272

>>Derivative: *N*-Oxide

Synonym(s): **Clomifenoxide**, INN

CAS Registry Number: 97642-74-5

Molecular Formula: C₂₆H₂₈ClNO₂

Molecular Weight: 421.965

Accurate Mass: 421.180856

Percentage Composition: C 74.01%; H 6.69%; Cl 8.40%; N 3.32%; O 7.58%

Use/Importance: Gonad stimulant. Antiestrogen

Development Status: Never marketed

Calculated Log P Data: Log P 5.35 (uncertain value) (calc)

>>Variant: (*E*)-form

Synonym(s): **Enclomiphene**, USAN. Enclomifene, INN. Cisclophene. RMI 16289

CAS Registry Number: 15690-57-0

Molecular Formula: C₂₆H₂₈ClNO

Molecular Weight: 405.966

Accurate Mass: 405.185941

Percentage Composition: C 76.92%; H 6.95%; Cl 8.73%; N 3.45%; O 3.94%

Use/Importance: Gonadotrophin inhibitor, antiestrogenic. Gonad stimulant

>>Derivative: Citrate

Melting Point: Mp 116.5-118°

Solubility: Sl. sol. H₂O, CHCl₃; insol. Et₂O

>>Variant: (*Z*)-form

Synonym(s): **Zuclomiphene**, USAN. Zuclomifene, INN. Transclophene. ICI 46476. RMI 16312

CAS Registry Number: 15690-55-8

Molecular Formula: C₂₆H₂₈ClNO

Molecular Weight: 405.966

Accurate Mass: 405.185941

Percentage Composition: C 76.92%; H 6.95%; Cl 8.73%; N 3.45%; O 3.94%

Use/Importance: Gonad stimulant

References: