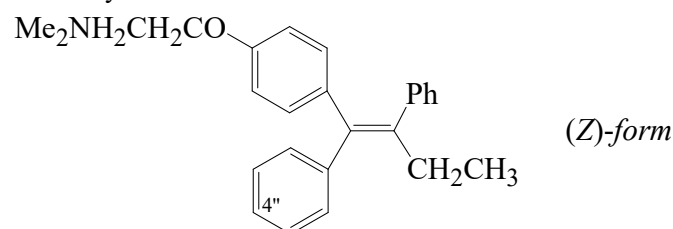




>>>**Entry Name: Tamoxifen**, BAN, INN

**Synonym(s):** 2-[4-(1,2-Diphenyl-1-butenyl)phenoxy]-*N,N*-dimethylethanamine, 9Cl. Kessar. Neophedan. Noltam. **Nolvadex**‡. Spectrila. Tamaxin. Tamofen. Tamoplex. Tamoxigenat. Valodex. Zemide. ICI 46474. NSC 180973. Many other names



**Molecular Formula:** C<sub>26</sub>H<sub>29</sub>NO

**Molecular Weight:** 371.521

**Accurate Mass:** 371.224914

**Percentage Composition:** C 84.06%; H 7.87%; N 3.77%; O 4.31%

**Biological Use/Importance:** Antiestrogen; used in the treatment of breast cancer

**Development Status:** Marketed drug. Launched 1977. Worldwide 87th best selling prescription drug (as citrate) (\$0.58 bn) (AstraZeneca) (2000, Pharma Business)

**Calculated Log P Data:** Log P 6.64 (calc)

**Other Data:** The active drug is prob. the 4-OH substd. deriv.

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

**Synonym(s):** ICI 47699

**CAS Registry Number:** 13002-65-8

**Molecular Formula:** C<sub>26</sub>H<sub>29</sub>NO

**Molecular Weight:** 371.521

**Accurate Mass:** 371.224914

**Percentage Composition:** C 84.06%; H 7.87%; N 3.77%; O 4.31%

**Physical Description:** Cryst. (MeOH)

**Melting Point:** Mp 72-74°

**Aldrich:** 28161-1

>>>**Derivative:** 4''-Hydroxy

**CAS Registry Number:** 174592-47-3

**Extra CAS Registry Numbers(s):** 68047-35-8

**Molecular Formula:** C<sub>26</sub>H<sub>29</sub>NO<sub>2</sub>

**Molecular Weight:** 387.521

**Accurate Mass:** 387.219829

**Percentage Composition:** C 80.59%; H 7.54%; N 3.61%; O 8.26%

**Physical Description:** Cryst. (EtOH)

**Melting Point:** Mp 155-157°

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

**CAS Registry Number:** 10540-29-1

**Molecular Formula:** C<sub>26</sub>H<sub>29</sub>NO

**Molecular Weight:** 371.521

**Accurate Mass:** 371.224914

**Percentage Composition:** C 84.06%; H 7.87%; N 3.77%; O 4.31%

**Physical Description:** Cryst. (petrol)

**Melting Point:** Mp 96-98°

**Other Data:** Pharmacol. active isomer

**Sigma:** T5648

>>>**Derivative:** Citrate (1:1)

**Synonym(s):** **Tamoxifen citrate**, JAN, USAN. Duratamoxifen. Embion. Fentamox. Kessar. Noltam. Nolvadex. Oestrifen. Oncotam. Tamofen. Many other names

**CAS Registry Number:** 54965-24-1

**Melting Point:** Mp 140-142°

**Sigma:** T9262