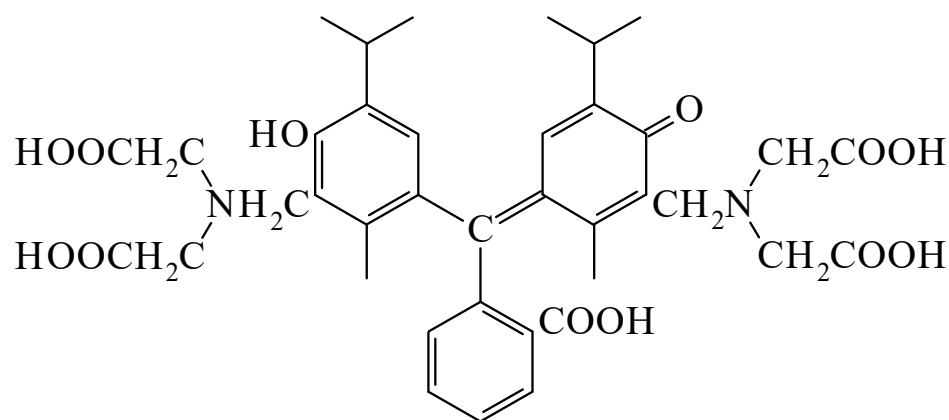




>>Entry Name: Thymolphthalexon

Synonym(s): Thymolphthalein complexon. 3,3'-Bis[*N,N*-di(carboxymethyl)aminomethyl]thymolphthalein. *N,N'*-[(3-Oxo-1(3*H*)-isobenzofuranylidene)bis[[6-hydroxy-2-methyl-5-(1-methylethyl)-3,1-phenylene]methylene]]bis[*N*-(carboxymethyl)]glycine



CAS Registry Number: 1913-93-5

Molecular Formula: C₃₈H₄₄N₂O₁₂

Molecular Weight: 720.772

Accurate Mass: 720.289428

Percentage Composition: C 63.32%; H 6.15%; N 3.89%; O 26.64%

Use/Importance: Used as 0.1% aq. soln. for photometric detn. of V(*I*) (λ_{max} 610 nm, ϵ 5700); indicator in EDTA titrations of Ca, Mg (pH 10.2-10.5)

Physical Description: Cryst. powder

Solubility: Sol. H₂O (as sodium salt); insol. EtOH

Fluka: 89365

Sigma: T2882

References:

Budesinsky, B.W., *Microchem. J.*, 1975, **20**, 17, (*use, indicator*)

Cherkesov, A.I. *et al.*, *Zh. Anal. Khim.*, 1975, **30**, 517, (*detn, V*)

Cheng, K.L. *et al.*, *Handbook of Organic Analytical Reagents*, CRC Press, Boca Raton, 1982, 221, (*use*)