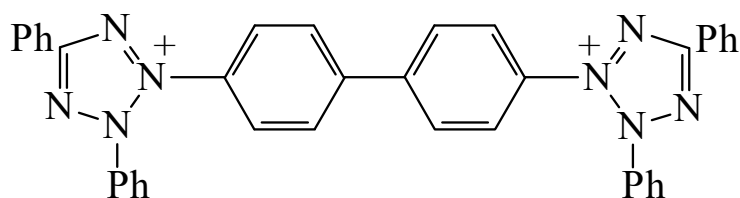




>>Entry Name: Neotetrazolium(2+)

Synonym(s): 3,3'-[1,1'-Biphenyl]-4,4'-diylbis[2,5-diphenyl-2H-tetrazolium](2+), 9Cl



Molecular Formula: C₃₈H₂₈N₈²⁽⁺⁾

Molecular Weight: 596.693

Accurate Mass: 596.243692

Percentage Composition: C 76.49%; H 4.73%; N 18.78%

>>Derivative: Dichloride

CAS Registry Number: 298-95-3

Molecular Formula: C₃₈H₂₈Cl₂N₈

Molecular Weight: 667.598

Accurate Mass: 666.181396

Percentage Composition: C 68.37%; H 4.23%; Cl 10.62%; N 16.78%

Use/Importance: Used as 0.4% soln. in aq. EtOH for extraction-photometric detn. of Co (λ_{max} 620 nm, ϵ 64000), Mo (λ_{max} 420 nm, ϵ 14300)

Physical Description: Cryst.

Melting Point: Mp 230 dec.°

Solubility: Sol. EtOH

Aldrich: B3510-5

Fluka: 72150

Sigma: N2251

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 632D, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 501A, (*nmr*)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 139

Singh, A.K. *et al.*, *Anal. Chim. Acta*, 1985, **172**, 303, (*detn. Co*)

Singh, A.K. *et al.*, *Analyst (London)*, 1985, **110**, 751, (*detn. Mo*)