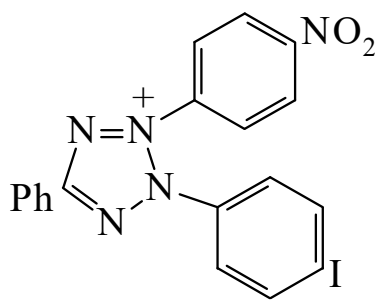




>>Entry Name: Iodonitrotetrazolium violet

Synonym(s): 2-(4-Iodophenyl)-3-(4-nitrophenyl)-5-phenyl-2*H*-tetrazolium(1+), 9Cl



Molecular Formula: C₁₉H₁₃IN₅O₂⁽⁺⁾

Molecular Weight: 470.248

Accurate Mass: 470.011398

Percentage Composition: C 48.53%; H 2.79%; I 26.99%; N 14.89%; O 6.80%

>>Derivative: Chloride

Synonym(s): INT

CAS Registry Number: 146-68-9

Molecular Formula: C₁₉H₁₃ClIN₅O₂

Molecular Weight: 505.701

Accurate Mass: 504.98025

Percentage Composition: C 45.13%; H 2.59%; Cl 7.01%; I 25.09%; N 13.85%; O 6.33%

Use/Importance: Used as 0.2% aq. soln. for photometric detn. of creatine phosphokinase isoenzymes; photometric detn. of S²⁽⁻⁾ (λ_{max} 630 nm, ε 110000, pH 10.3-11.5)

Physical Description: Pale yellow cryst.

Solubility: Sol. hot H₂O, EtOH, alkalis, DMF

Aldrich: I-1040-6

Fluka: 58030

Sigma: I8377

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 95B, (*nmr*)

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Sigma-Aldrich Library of Stains, Dyes and Indicators, 410

Hoag, G.N. *et al.*, *Clin. Biochem.*, 1977, **10**, 94, (*detn, enzymes*)

Alexandrov, A. *et al.*, *Fresenius' Z. Anal. Chem.*, 1977, **288**, 187, (*detn, S²⁽⁻⁾*)

Kolesnikova, A.M. *et al.*, *Zavod. Lab.*, 1985, **51**, 1, (*detn, S²⁽⁻⁾*)