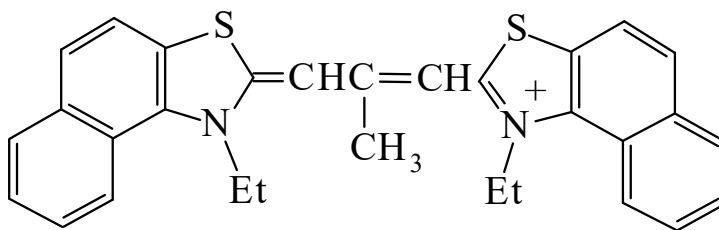




>>Entry Name: Stains-all

Synonym(s): 4,5,4',5'-Dibenzo-3,3'-diethyl-9-methylthiacarbocyanine. 1,1'-Diethyl-9-methyl-6,7,6',7'-dibenzothiacarbocyanine. 1-Ethyl-2-[3-(1-ethylnaphtho[1,2-*d*]thiazolin-2(1*H*)-ylidene)-2-methyl-1-propenyl]naphthol[1,2-*d*]thiazolium(1+)



Molecular Formula: C₃₀H₂₇N₂S₂⁽⁺⁾

Molecular Weight: 479.689

Accurate Mass: 479.161563

Percentage Composition: C 75.12%; H 5.67%; N 5.84%; S 13.37%

Use/Importance: Photographic sensitizer; biological stain for differential characterization of nucleic acids

>>Derivative: Bromide

CAS Registry Number: 7423-31-6

Molecular Formula: C₃₀H₂₇BrN₂S₂

Molecular Weight: 559.593

Accurate Mass: 558.099899

Percentage Composition: C 64.39%; H 4.86%; Br 14.28%; N 5.01%; S 11.46%

Physical Description: Deep-fuchsia cryst. (MeOH)

Melting Point: Mp 240 dec.°

Aldrich: 23096-0

Fluka: 85663

Sigma: E7762

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1041A, (*ir*)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 651

Japan. Pat., 1964, 64 2 626; *CA*, **61**, 3244e, (*synth*)

Kay, R.E. *et al.*, *J. Phys. Chem.*, 1964, **68**, 1896; 1907, (*uv, use*)