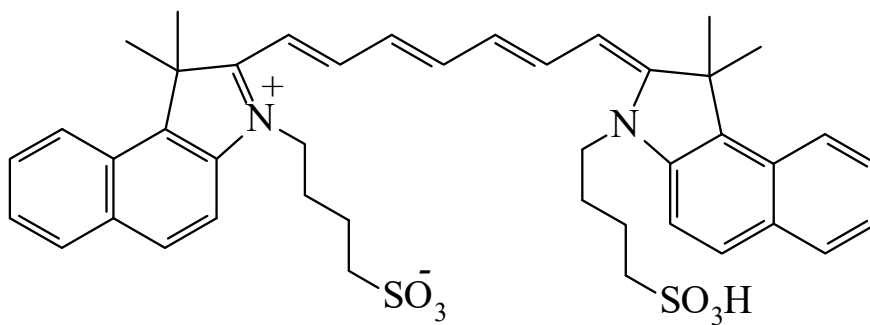




>>Entry Name: Indocyanine green, JAN, USAN

Synonym(s): 2-[7-[1,3-Dihydro-1,1-dimethyl-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]-1,3,5-heptatrienyl]-1,1-dimethyl-3-(4-sulfobutyl)-1H-benz[e]indolium hydroxide inner salt, 9Cl, 8Cl. Cardio-green. Fox green. Tricarbocyanine II. Wofaverdin. Diagnogreen. Ujoviridin. ICG



Molecular Formula: $C_{43}H_{48}N_2O_6S_2$

Molecular Weight: 752.994

Accurate Mass: 752.295378

Percentage Composition: C 68.59%; H 6.42%; N 3.72%; O 12.75%; S 8.52%

Use/Importance: Dye used for determination of blood volume, cardiac output and hepatic function

>>Derivative: Na salt

CAS Registry Number: 3599-32-4

Physical Description: Green powder

Melting Point: Mp 243-245 dec.°

Hazard & Toxicity: LD₅₀ (mus, ivn) 60 mg/kg. LD₅₀ (rat, ipr) 700 mg/kg

Aldrich: W242-4

Fluka: 21980

Sigma: I2633

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1043A, (ir)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 407

U.S. Pat., 1959, *Eastman Kodak*, 2 895 955; *CA*, **54**, 121d, (synth, pharmacol)

Benya, R. *et al.*, *Cathet. Cardiovasc. Diagn.*, 1989, **17**, 231, (tox, rev)

Henschen, S. *et al.*, *J. Med. (Westbury, N.Y.)*, 1993, **24**, 10, (use, rev)

Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 775

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, CCK000