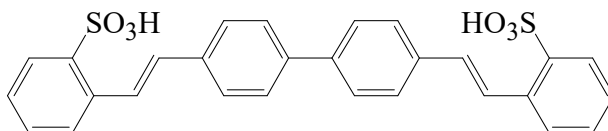




>>Entry Name: 2,2'-[[1,1'-Biphenyl]-4,4'-diyl]-2,1-ethenediyl]bisbenzenesulfonic acid, 9Cl

Synonym(s): 2,2'-(4,4'-Biphenylylenedivinylene)dibenzenesulfonic acid, 8Cl. 4,4'-Distyrylbiphenyl-2",2'''-disulfonic acid. Stilbene 3. Tinopal[®]. CBS-X. DSBP



CAS Registry Number: 38775-22-3

Related CAS Registry Numbers(s): 56776-28-4 60317-04-6 79429-30-4

Extra CAS Registry Numbers(s): 27344-41-8

Molecular Formula: C₂₈H₂₂O₆S₂

Molecular Weight: 518.61

Accurate Mass: 518.08578

Percentage Composition: C 64.85%; H 4.28%; O 18.51%; S 12.37%

General Statement: Strictly the trade names refer to the di-Na salt

Use/Importance: Fluorescent whitening agent for laundry products (usually as di-Na salt). Laser dye. World production 3000 tons/year in 1989

Other Data: Mp >300° (di-Na salt)

>>Derivative: Dichloride

CAS Registry Number: 27344-46-3

Molecular Formula: C₂₈H₂₀Cl₂O₄S₂

Molecular Weight: 555.501

Accurate Mass: 554.018004

Percentage Composition: C 60.54%; H 3.63%; Cl 12.76%; O 11.52%; S 11.54%

Melting Point: Mp 236-237°

>>Derivative: Diamide

CAS Registry Number: 27344-51-0

Molecular Formula: C₂₈H₂₄N₂O₄S₂

Molecular Weight: 516.641

Accurate Mass: 516.117748

Percentage Composition: C 65.10%; H 4.68%; N 5.42%; O 12.39%; S 12.41%

Melting Point: Mp 280.5-282°

>>Derivative: Bis(dimethylamide)

CAS Registry Number: 27344-52-1

Molecular Formula: C₃₂H₃₂N₂O₄S₂

Molecular Weight: 572.748

Accurate Mass: 572.180348

Percentage Composition: C 67.11%; H 5.63%; N 4.89%; O 11.17%; S 11.20%

Melting Point: Mp 280-281°

References:

South African Pat., 1969, **73**, 6 806 288; *CA*, **73**, 16306x, (*synth, use, derivs*)

Johnstone, T.F. *et al.*, *Appl. Opt.*, 1982, **21**, 2307-2316, (*props*)

Ullmann's Encycl. Ind. Chem., 5th edn., Weinheim, 1985, **A18**, 157, (*use*)

Eur. Pat., 1994, 586 346; *CA*, **120**, 247370u, (*synth*)

Stoll, J.M.A. *et al.*, *Anal. Chem.*, 1997, **69**, 2594-2599, (*anal, hplc, bibl*)