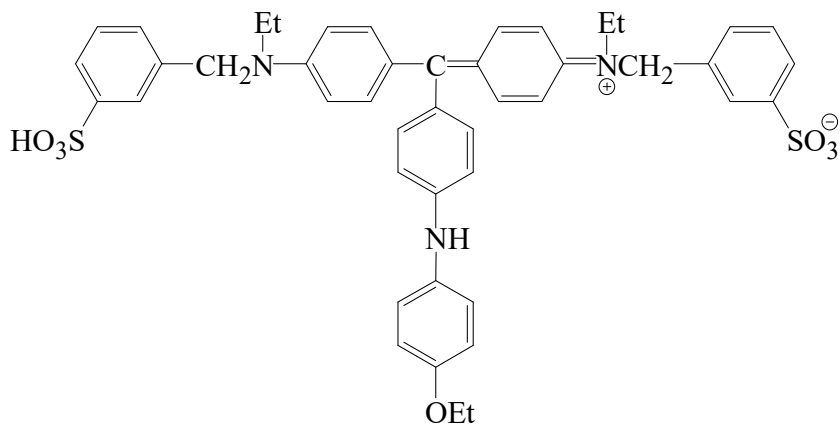




>>Entry Name: Coomassie brilliant blue R

Synonym(s): Brilliant indocyanin 6B. Coomassie blue R250. Coomassie blue R. C.I. Acid Blue 83. C.I. 42660



CAS Registry Number: 25305-85-5

Molecular Formula: C₄₅H₄₅N₃O₇S₂

Molecular Weight: 803.998

Accurate Mass: 803.269892

Percentage Composition: C 67.23%; H 5.64%; N 5.23%; O 13.93%; S 7.98%

General Statement: Strictly the Coomassie names refer to the Na salt

Use/Importance: Dye used in inks and for wool and fabric dyeing

Biological Use/Importance: Used to stain proteins

Solubility: Insol. cold H₂O; sl. sol. hot H₂O

>>Derivative: Na salt

CAS Registry Number: 6104-59-2

UV: [neutral] λ_{max} 587 (ε 83000) (MeOH)

References:

Fazekas de St. Groth, S. *et al.*, *Biochim. Biophys. Acta*, 1963, **71**, 377-391, (*props, use*)

Patterson, D. *et al.*, *Nature (London)*, 1964, **201**, 294-295, (*photoconduct*)

Diezel, W. *et al.*, *Anal. Biochem.*, 1972, **48**, 617-620, (*use*)

Conn, H.J., *Biological Stains*, 9th edn, Williams and Wilkins, 1977, 284

Pannell, L.K. *et al.*, *Anal. Chem.*, 1985, **57**, 1060-1067, (*ms*)

Wilson, C.M. *et al.*, *Biotech. Histochem.*, 1992, **67**, 224-234, (*props, use*)