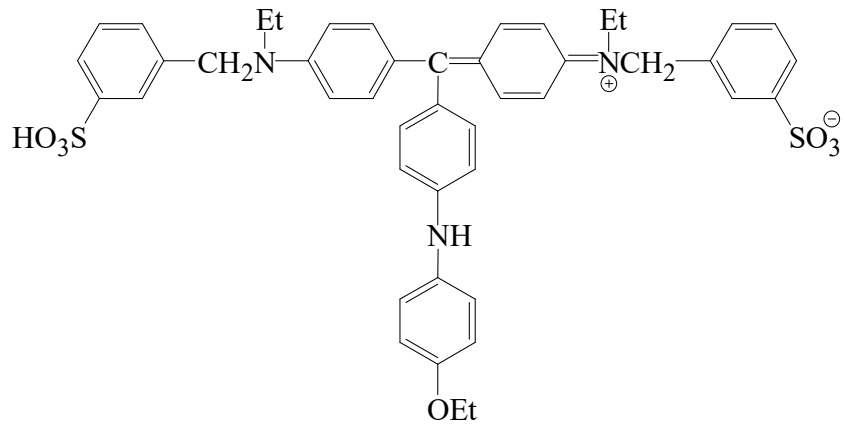
>>**Entry Name: Coomassie brilliant blue R**

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: $C_{45}H_{45}N_3O_7S_2$
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 H_2O; sl. sol. hot H_2O

>>**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)*