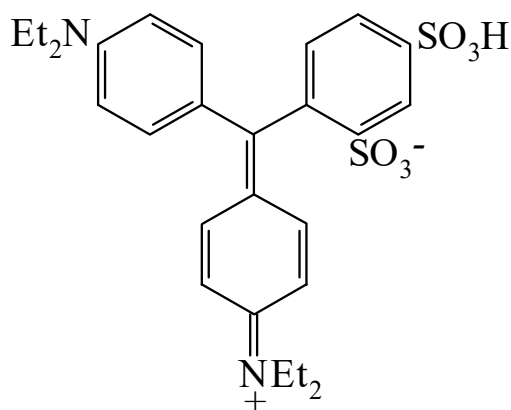




>>Entry Name: Sulphan blue, BAN

**Synonym(s):** *N*-[4-[[4-(Diethylamino)phenyl](2,4-disulfophenyl)methylene]-2,5-cyclohexadien-1-ylidene]-*N*-ethylethanaminium, 9Cl. [4-[ $\alpha$ -[*p*-(Diethylamino)phenyl]-2,4-disulfobenzylidene]-2,5-cyclohexadien-1-ylidene]diethylammonium, 8Cl. Blue VRS. Disulfine blue VNS. Alphazurine 2G. Sulfan blue. Patent blue V. C.I. 42045



**CAS Registry Number:** 116-95-0

**Extra CAS Registry Numbers(s):** 129-17-9

**Molecular Formula:** C<sub>27</sub>H<sub>32</sub>N<sub>2</sub>O<sub>6</sub>S<sub>2</sub>

**Molecular Weight:** 544.692

**Accurate Mass:** 544.170178

**Percentage Composition:** C 59.54%; H 5.92%; N 5.14%; O 17.62%; S 11.77%

**Use/Importance:** Acid base indicator used as 0.1% aq. soln. (pH range: 0.8-3.0; colour change: yellow → blue)

**Biological Use/Importance:** Cardiovascular investigative dye, freq. used as Na or Al salt

**Physical Description:** Violet powder (as Na salt)

**Solubility:** Na salt v.sol. H<sub>2</sub>O, sol. EtOH

**UV:** [neutral]  $\lambda_{\max}$  635 ( ) (H<sub>2</sub>O)

**Hazard & Toxicity:** Hypersensitivity reactions reported incl. anaphylactic shock when used parenterally

>>Derivative: Ca salt

**Synonym(s):** C.I. Acid Blue 3. C.I. Food Blue 3. E 131. CI 42051

**CAS Registry Number:** 3536-49-0

**Use/Importance:** Colourant for beverages and pharmaceuticals

**Physical Description:** Bright blue solid

#### References:

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