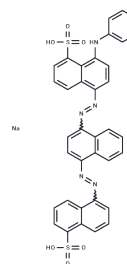


## C.I. Acid Black 24

## Chemical Properties

CAS No. :	3071-73-6
Formula:	C <sub>36</sub> H <sub>25</sub> N <sub>5</sub> NaO <sub>6</sub> S <sub>2</sub>
Molecular Weight:	710.73
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	C.I. Acid Black 24 is a dye that is a blue-black powder. Soluble in water, aqueous solution is reddish blue to black, greenish blue when added to concentrated hydrochloric acid; date red when added to concentrated sodium hydroxide solution. Dissolved in ethanol is navy blue, in concentrated sulfuric acid is gray-blue to black, after dilution is dark green light blue; in concentrated nitric acid is red light brown and then changed to yellow. Used for dyeing woolen fabrics, also suitable for nylon, silk and leather dyeing.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.407 mL	7.035 mL	14.070 mL
5 mM	0.2814 mL	1.407 mL	2.814 mL
10 mM	0.1407 mL	0.7035 mL	1.407 mL
50 mM	0.0281 mL	0.1407 mL	0.2814 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Shu HY, Chang MC, Chang CC. Integration of nanosized zero-valent iron particles addition with UV/H<sub>2</sub>O<sub>2</sub> process for purification of azo dye Acid Black 24 solution. J Hazard Mater. 2009 Aug 15;167(1-3):1178-84. doi: 10.1016/j.jhazmat.2009.01.106. Epub 2009 Feb 6. PubMed PMID: 19250743.

Shu HY, Chang MC, Yu HH, Chen WH. Reduction of an azo dye acid black 24 solution using synthesized nanoscale zerovalent iron particles. J Colloid Interface Sci. 2007 Oct 1;314(1):89-97. Epub 2007 Jul 3. PubMed PMID: 17610885.

Chang MC, Shu HY, Yu HH. An integrated technique using zero-valent iron and UV/H<sub>2</sub>O<sub>2</sub> sequential process for complete decolorization and mineralization of C.I. Acid Black 24 wastewater. J Hazard Mater. 2006 Dec 1;138(3):574-81. Epub 2006 Jun 3. PubMed PMID: 16806683.

Manu B, Chaudhari S. Anaerobic decolorisation of simulated textile wastewater containing azo dyes. Bioresour Technol. 2002 May;82(3):225-31. PubMed PMID: 11991070.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481