

Data Sheet (Cat.No.TN1370)

Allura Red AC

Chemical Properties

CAS No.:	25956-17-6
Formula:	C ₁₈ H ₁₄ N ₂ Na ₂ O ₈ S ₂
Molecular Weight:	496.42
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Allura Red AC and amaranth are very important food azo dyes used in food, drug, paper, cosmetic and textile industries.
Targets(IC ₅₀)	Androgen Receptor: None Estrogen Receptor/ERR: None Estrogen/progestogen Receptor: None
In vitro	Experiments were performed with a stirred tank reactor containing a boron-doped diamond (BDD) or Pt anode and an air-diffusion cathode to generate H ₂ O ₂ . The main oxidants were hydroxyl radicals formed at the anode surface from water oxidation and in the bulk from Fenton's reaction between H ₂ O ₂ and added Fe(2+). The oxidation ability increased in the sequence EO-H ₂ O ₂ < EF < PEF and faster degradation was always obtained using BDD. PEF process with BDD yielded almost total mineralization following similar trends in SO ₄ (2-), ClO ₄ (-) and NO ₃ (-) media, whereas in Cl(-) medium, mineralization was inhibited by the formation of recalcitrant chloroderivatives[1]

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.014 mL	10.072 mL	20.144 mL
5 mM	0.403 mL	2.014 mL	4.029 mL
10 mM	0.201 mL	1.007 mL	2.014 mL
50 mM	0.04 mL	0.201 mL	0.403 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Decolorization and mineralization of Allura Red AC aqueous solutions by electrochemical advanced oxidation processes. J Hazard Mater. 2015 Jun 15;290:34-42.

Inhibitors · Natural Compounds · Compound Libraries

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