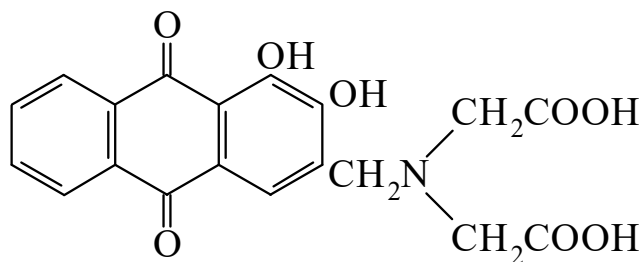




>>Entry Name: Alizarine fluorine blue

Synonym(s): *N*-(Carboxymethyl)-*N*-[(9,10-dihydro-3,4-dihydroxy-9,10-dioxo-2-anthracenyl)methyl]glycine, 9Cl. 3-[Di(carboxymethyl)aminomethyl]-1,2-dihydroxyanthraquinone. 3,4-Dihydroxyanthraquinon-2-ylmethylimino-*N,N*-diacetic acid. Alizarin-3-methylimino-*N,N*-diacetic acid. Alizarine complexone



CAS Registry Number: 3952-78-1

Molecular Formula: C₁₉H₁₅NO₈

Molecular Weight: 385.329

Accurate Mass: 385.079769

Percentage Composition: C 59.22%; H 3.92%; N 3.63%; O 33.22%

Use/Importance: Used as 0.5% soln. in dil. aq. NH₃ for photometric detn. of F⁽⁻⁾ ($\lambda_{\max}$ 620 nm, ϵ 14000), Al, Ge, Mo, Co, Ni, U

Physical Description: Orange cryst. (HCl)

Melting Point: Mp 180 dec.°

Solubility: Sol. alkalis; spar. sol. H₂O; insol. acids, Et₂O

Aldrich: 12765-5

Fluka: 5590

Rare Chemicals Library: S28113-1

Sigma: A3882

References:

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Sigma-Aldrich Library of Stains, Dyes and Indicators, 78

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Belcher, R. *et al.*, *Talanta*, 1961, **8**, 853; 863, (detn, F)

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Ingman, F., *Talanta*, 1973, **20**, 999, (detn, Al)

Cheng, K.L. *et al.*, *Handbook of Organic Analytical Reagents*, CRC Press, Boca Raton, 1982, 247, (use)

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