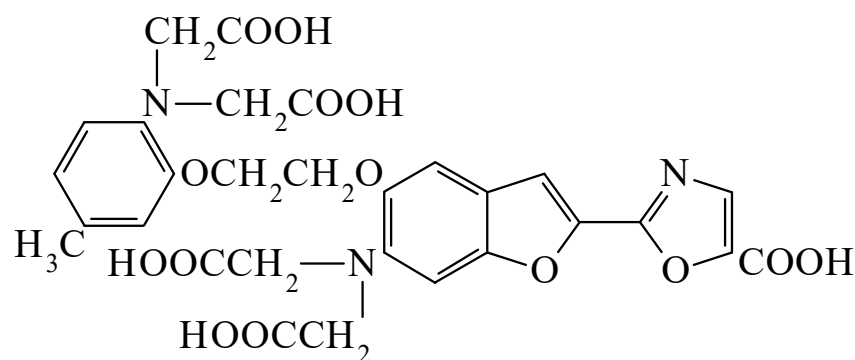




>>Entry Name: Fura 2



CAS Registry Number: 96314-98-6

Related CAS Registry Numbers(s): 96315-04-7 100108-74-5 100215-37-0 120551-16-8

Molecular Formula: C₂₉H₂₇N₃O₁₄

Molecular Weight: 641.544

Accurate Mass: 641.149307

Percentage Composition: C 54.29%; H 4.24%; N 6.55%; O 34.91%

Fluka: 47987

>>**Derivative:** Tetra-K salt

Use/Importance: Fluorescent probe for intracellular Mg

>>**Derivative:** Penta-K salt

CAS Registry Number: 113694-64-7

Use/Importance: Fluorescent probe for intracellular Ca

Sigma: F0763

>>**Derivative:** Penta-Et ester

CAS Registry Number: 96331-97-4

Molecular Formula: C₃₉H₄₇N₃O₁₄

Molecular Weight: 781.812

Accurate Mass: 781.305807

Percentage Composition: C 59.92%; H 6.06%; N 5.37%; O 28.65%

Melting Point: Mp 138°

>>**Derivative:** Pentakis(acetoxymethyl)ester

Synonym(s): Fura 2-AM

CAS Registry Number: 108964-32-5

Molecular Formula: C₄₄H₄₇N₃O₂₄

Molecular Weight: 1001.861

Accurate Mass: 1001.254957

Percentage Composition: C 52.75%; H 4.73%; N 4.19%; O 38.33%

Use/Importance: Fluorescent probe for intracellular Ca

Physical Description: Yellow powder

Fluka: 47989

Sigma: F5141

References:

Rao, G.H.R. *et al.*, *Biochem. Biophys. Res. Commun.*, 1985, **132**, 652, (*use*)

Gryniewicz, G. *et al.*, *J. Biol. Chem.*, 1985, **260**, 3440, (*synth, use*)

Poenie, M., *Prog. Clin. Biol. Res.*, 1986, **210**, 53, (*rev*)

Cork, R.J. *et al.*, *Biol. Bull. (Woods Hole, Mass.)*, 1989, **176**, 25, (*rev*)

Roe, M.W. *et al.*, *Cell Calcium*, 1990, **11**, 63, (*rev*)