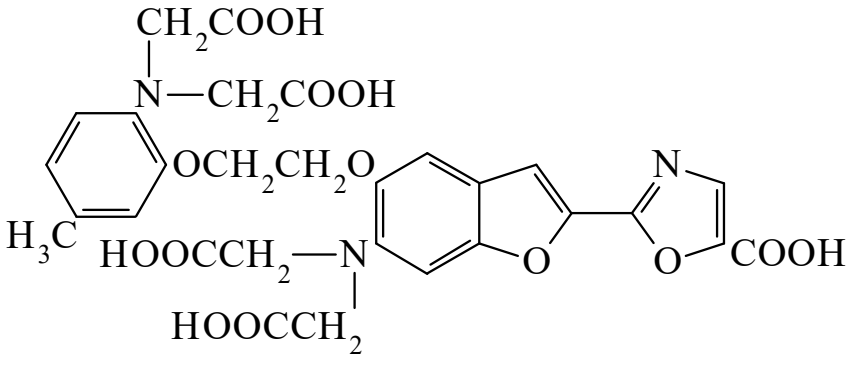
>>**Entry Name: Fura 2**



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: $C_{29}H_{27}N_3O_{14}$
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: $C_{39}H_{47}N_3O_{14}$
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: $C_{44}H_{47}N_3O_{24}$
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:

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