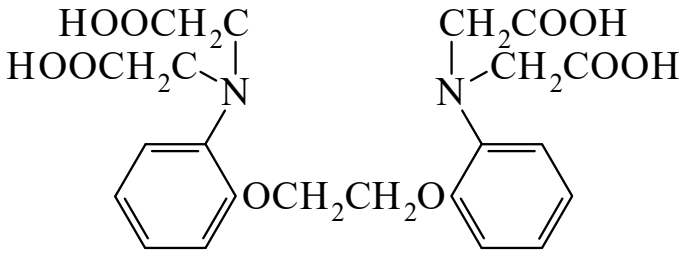
>>**Entry Name: 1,2-Bis(2-aminophenoxy)ethane-*N,N,N′,N′*-tetraacetic acid**
Synonym(s): *N,N*'-[1,2-Ethanediylbis(oxy-2,1-phenylene)]bis[*N*-(carboxymethyl)glycine], 9CI. BAPTA



CAS Registry Number: 85233-19-8
Related CAS Registry Numbers(s): 73630-08-7

Molecular Formula: $C_{22}H_{24}N_2O_{10}$
Molecular Weight: 476.439
Accurate Mass: 476.143098
Percentage Composition: C 55.46%; H 5.08%; N 5.88%; O 33.58%
Use/Importance: Highly selective buffer and optical indicator for cellular $Ca^{2(+)}$ ions
Melting Point: Mp 172-178°

Aldrich: 34388-9
Fluka: 14510
Sigma: A3664

>>**Derivative:** Tetra-Me ester

Molecular Formula: $C_{26}H_{32}N_2O_{10}$
Molecular Weight: 532.546
Accurate Mass: 532.205698
Percentage Composition: C 58.64%; H 6.06%; N 5.26%; O 30.04%
Physical Description: Cryst.
Melting Point: Mp 95-97°

>>**Derivative:** Tetra-Et ester

CAS Registry Number: 73630-07-6
Molecular Formula: $C_{30}H_{40}N_2O_{10}$
Molecular Weight: 588.653
Accurate Mass: 588.268298
Percentage Composition: C 61.21%; H 6.85%; N 4.76%; O 27.18%
Melting Point: Mp 95-97°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1194A, *(nmr)*
Tsien, R.Y., *Biochemistry*, 1980, **19**, 2396, *(synth, pmr, uv, use)*
Chaincone, E. *et al.*, *J. Biol. Chem.*, 1986, 261; 16306, *(use)*
Adams, S.R. *et al.*, *J.A.C.S.*, 1989, **111**, 7957, *(deriv, synth, use)*