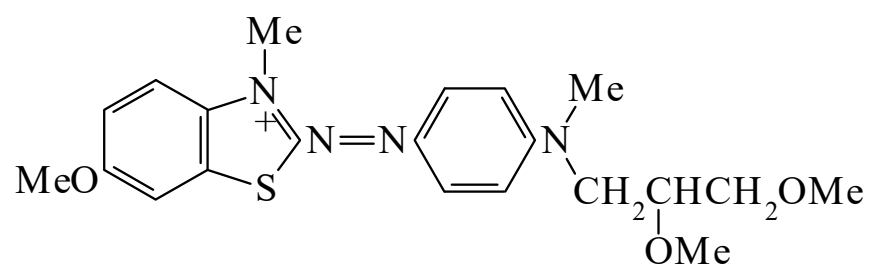




>>Entry Name: Maxilon blue GRL

Synonym(s): 2-[[4-[(2,3-Dimethoxypropyl)methylamino]phenyl]azo]-6-methoxy-3-methylbenzothiazolium(1+), 9Cl. C.I. Basic blue 41



CAS Registry Number: 12270-13-2

Molecular Formula: $C_{21}H_{27}N_4O_3S^{(+)}$

Molecular Weight: 415.535

Accurate Mass: 415.180386

Percentage Composition: C 60.70%; H 6.55%; N 13.48%; O 11.55%; S 7.72%

Aldrich: 32482-5

>>Derivative: Chloride

Molecular Formula: $C_{21}H_{27}ClN_4O_3S$

Molecular Weight: 450.988

Accurate Mass: 450.149238

Percentage Composition: C 55.93%; H 6.03%; Cl 7.86%; N 12.42%; O 10.64%; S 7.11%

Use/Importance: Used for extraction-photometric detn. of Au ($\lambda_{\max}$ 578 nm, ϵ 96200, C_6H_6)

Physical Description: Dark red cryst.

References:

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **3**, 550C, (nmr)

Constantinescu, G.C. *et al.*, *CA*, 1975, **82**, 105931a