

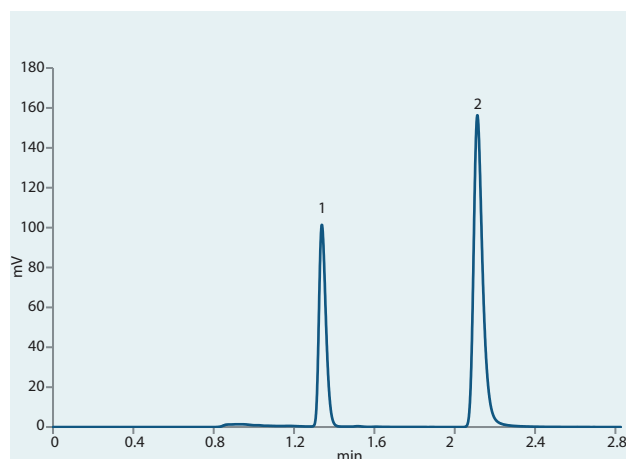
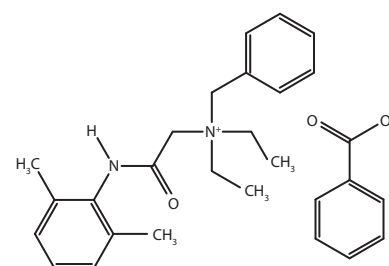


DENATONIUM BENZOATE IN ETHANOL

INTRODUCTION

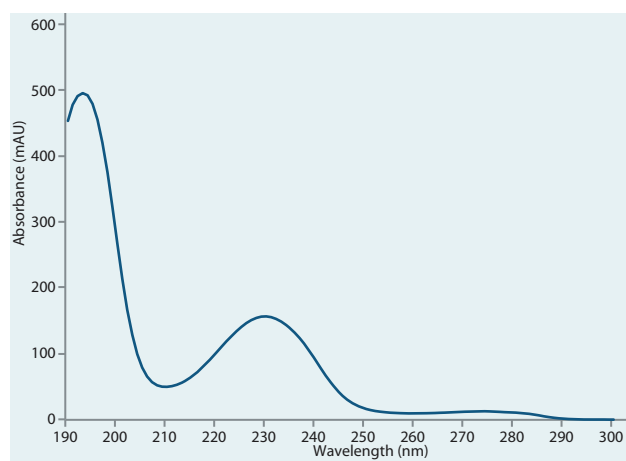
Denatonium benzoate is considered the most bitter compound by the whole world, which is why it is used as a denaturant of ethanol to prevent its misuse. This application shows fast isocratic elution to enhance productivity in the laboratory.

Substance: Denatonium Benzoate, CAS Number 3734-33-6
Synonym: Denatrol, BITTERANT-b, BITTER+PLUS, Bitrex, Aversion
Formula: N,N-Diethyl-N-[(2,6-dimethylphenylcarbamoyl)-methyl]benzylammonium benzoate
 Benzyldiethyl(2,6-xylylcarbamoylmethyl)ammonium benzoate, THS 839



Bitrex in EtOH

Column	ARION® Plus C18, 5.0 µm
Dimensions	250 mm × 4.6 mm
Part number	ARI-5720-LM46
Mobile Phase	A/B 50/50 (v/v) isocratic elution A: Acetonitrile B: 0,5% H3PO4 in mili-Q water, (pH = 2)
Flow rate	2.0 ml/min
Injection	20 µl
Temperature	Ambient
Detection	230 nm (ref. 550 nm, 100 nm BW)
Analytes	1. Benzoic acid 2. Denatonium
Elution time of analyte:	2.11 min



UV spectrum