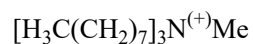




>>Entry Name: Methyltrioctylammonium(1+)

Synonym(s): *N*-Methyl-*N,N*-dioctyl-1-octanaminium(1+), 9Cl. Tricaprylylmethylammonium



Molecular Formula: C₂₅H₅₄N⁽⁺⁾

Molecular Weight: 368.708

Accurate Mass: 368.425624

Percentage Composition: C 81.44%; H 14.76%; N 3.80%

Use/Importance: Phase-transfer catalyst

>>Derivative: Chloride

Synonym(s): Aliquat 336

CAS Registry Number: 5137-55-3

Molecular Formula: C₂₅H₅₄ClN

Molecular Weight: 404.161

Accurate Mass: 403.394476

Percentage Composition: C 74.30%; H 13.47%; Cl 8.77%; N 3.47%

Use/Importance: Liq. ion-exchanger. Used for extraction-separation of Be, Cr(*VI*), Mo, U, V, Pt, Au

Physical Description: Yellowish oil

Solubility: Sol. CHCl₃, C₆H₆

Other Data: A commercially available reagent called Aliquat 336 is usually a mixture of methyl tri-*n*-alkylammonium chloride (C₂₇-C₃₃)

Aldrich: 20561-3

Sigma: M1906

>>Derivative: Bromide

CAS Registry Number: 35675-80-0

Molecular Formula: C₂₅H₅₄BrN

Molecular Weight: 448.612

Accurate Mass: 447.36396

Percentage Composition: C 66.93%; H 12.13%; Br 17.81%; N 3.12%

Melting Point: Mp 37-40°

References:

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Cheng, K.L. *et al.*, *Handbook of Organic Analytical Reagents*, CRC Press, Boca Raton, 1982, 479, (*use*)

Minczewski, J. *et al.*, *Separation and Preconcentration Methods in Inorganic Trace Analysis*, Horwood, Chichester, 1982

Rao, R.R. *et al.*, *Anal. Chem.*, 1983, **55**, 2320-2323, (*use*)