



>>Entry Name: Benzyltributylammonium(1+)

Synonym(s): *N,N,N*-Tributylbenzenemethanaminium, 9Cl

CAS Registry Number: 54225-72-8

$\text{PhCH}_2\text{N}^{(+)}(\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3)_3$

Molecular Formula: $\text{C}_{19}\text{H}_{34}\text{N}^{(+)}$

Molecular Weight: 276.484

Accurate Mass: 276.269124

Percentage Composition: C 82.54%; H 12.39%; N 5.07%

Use/Importance: Reagent for ion-pair extraction of inorganic anions

>>Derivative: Bromide

CAS Registry Number: 25316-59-0

Molecular Formula: $\text{C}_{19}\text{H}_{34}\text{BrN}$

Molecular Weight: 356.388

Accurate Mass: 355.20746

Percentage Composition: C 64.03%; H 9.62%; Br 22.42%; N 3.93%

Melting Point: Mp 178-179°

>>Derivative: Chloride

CAS Registry Number: 23616-79-7

Molecular Formula: $\text{C}_{19}\text{H}_{34}\text{ClN}$

Molecular Weight: 311.937

Accurate Mass: 311.237976

Percentage Composition: C 73.16%; H 10.99%; Cl 11.37%; N 4.49%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 185° (162-164°)

References:

Braendstroem, A. *et al.*, *Acta Chem. Scand., Ser. B*, 1974, **28**, 590, (*synth, chloride*)

Makosza, M. *et al.*, *Synth. Commun.*, 1976, **6**, 313-318, (*synth, bromide*)

Barber, W.E. *et al.*, *J. Chromatogr.*, 1984, **301**, 25, (*use*)

Evans, D.J. *et al.*, *Magn. Reson. Chem.*, 1990, **28**, 711-714, (*cmr*)