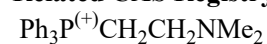




>>Entry Name: (2-Dimethylaminoethyl)triphenylphosphonium(1+)

Related CAS Registry Numbers(s): 90709-30-1



Molecular Formula: $\text{C}_{22}\text{H}_{25}\text{NP}^{(+)}$

Molecular Weight: 334.42

Accurate Mass: 334.172461

Percentage Composition: C 79.02%; H 7.53%; N 4.19%; P 9.26%

Use/Importance: Source of ylide

>>Derivative: Bromide

CAS Registry Number: 21331-80-6

Type of Compound Code(s): AC0600

Molecular Formula: $\text{C}_{22}\text{H}_{25}\text{BrNP}$

Molecular Weight: 414.324

Accurate Mass: 413.110797

Percentage Composition: C 63.78%; H 6.08%; Br 19.29%; N 3.38%; P 7.48%

Physical Description: Cryst. ($\text{CHCl}_3/\text{EtOAc}$)

Melting Point: Mp 196-199°. Mp 204-206°

Aldrich: 21544-9

Fluka: 39050

Sigma: D2641

>>Derivative: Ylide

Synonym(s): (2-Dimethylaminoethylidene)triphenylphosphorane

Type of Compound Code(s): AC0800

Molecular Formula: $\text{C}_{22}\text{H}_{24}\text{NP}$

Molecular Weight: 333.412

Accurate Mass: 333.164636

Percentage Composition: C 79.25%; H 7.26%; N 4.20%; P 9.29%

Use/Importance: Used in aminoalkylations of aldehydes and ketones

References:

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Marxer, A. *et al.*, *Helv. Chim. Acta*, 1978, **61**, 1708, (*synth, use*)

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De Castro Dantas *et al.*, *Tetrahedron*, 1983, **39**, 3337, (*ylide, use*)

Maryanoff, B.E. *et al.*, *J.A.C.S.*, 1985, **107**, 217, (*synth, props*)