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

Related CAS Registry Numbers(s): 90709-30-1
$Ph_3P^{(+)}CH_2CH_2NMe_2$

Molecular Formula: $C_{22}H_{25}NP^{(+)}$
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: $C_{22}H_{25}BrNP$
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. ($CHCl_3$/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: $C_{22}H_{24}NP$
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:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1671C, *(nmr)*
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 546C, *(ir)*
Marxer, A. *et al.*, *Helv. Chim. Acta*, 1978, **61**, 1708, *(synth, use)*
De Castro Dantas, T.N. *et al.*, *Phosphorus Sulfur Relat. Elem.*, 1982, **13**, 97, *(synth, use, P-31 nmr)*
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)*