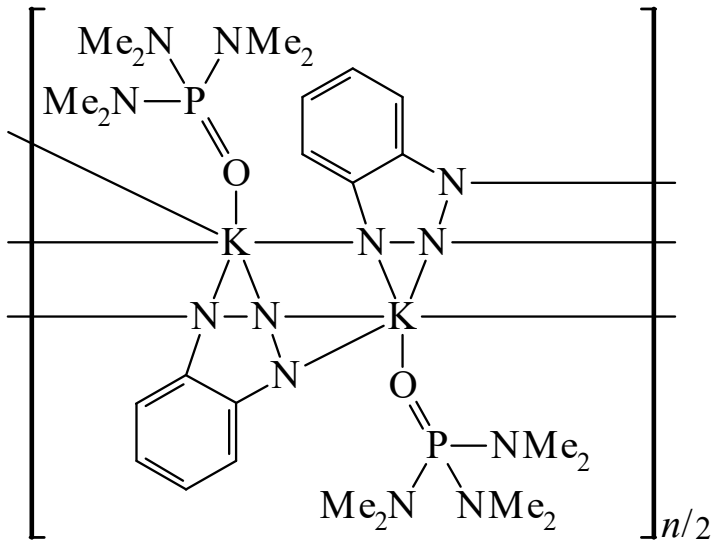
>>**Entry Name: Benzotriazolatopotassium**
Synonym(s): Benzotriazole, potassium salt, 9Cl. Potassium benztriazolate



HMPA complex

CAS Registry Number: 51126-65-9

Molecular Formula: $C_6H_4KN_3$
Molecular Weight: 157.216
Accurate Mass: 157.004229
Percentage Composition: C 45.84%; H 2.56%; K 24.87%; N 26.73%
General Statement: Only structurally confirmed as the HMPA complex

>>**Derivative:** HMPA complex (1:1)

Molecular Formula: $C_{12}H_{22}KN_6OP$
Molecular Weight: 336.417
Accurate Mass: 336.122978
Percentage Composition: C 42.84%; H 6.59%; K 11.62%; N 24.98%; O 4.76%; P 9.21%
Source/Synthesis: Prepd. by addn. of freshly sublimed benzotriazole in HMPA to a cold suspension of BuK in hexane followed by warming to 50° and recryst. from HMPA at 45°
Physical Description: Long colourless needles (HMPA)
Other Data: Struct. based on an intricate polymeric ladder arrangement made up of alternately fused K_2N_2 rhomboids and KN_2 triangles. Sixth coord. site of the K atom is occupied by a HMPA oxygen atom

References:

Askarov, M.A. *et al.*, *CA*, 1974, **80**, 48005j, *(reactions)*
Kuodis, Z. *et al.*, *CA*, 1984, **101**, 38098e, *(reactions)*
Andrews, P.C. *et al.*, *Chem. Comm.*, 1993, 1142, *(HMPA complex, synth, cryst struct)*

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