

Tetrabutylammonium Acetate

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Abstract

n-Bu₄NOAc

[10534-59-5] C₁₈H₃₉NO₂ (MW 301.58)

InChI = 1S/C16H36N.C2H4O2/c1-5-9-13-17(14-10-6-2,15-11-7-3)16-12-8-4;1-2(3)/h5-16H2,1-4H3;1H3,(H,3,4)/q+1;/p-1

InChIKey = MCZDHTKJGDCTAE-UHFFFAOYSA-M

(nucleophile for S_N2 displacement of sulfonates¹ and allylic halides;² mild, soluble base for reduction of tosylhydrazones with catecholborane³)

Physical Data: mp 114–115 °C (Alfa), 95–98 °C (Aldrich).

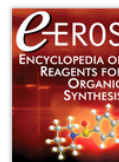
Solubility: sol most polar organic solvents (MeCN, acetone, CH₂Cl₂, EtOH); slightly sol benzene.

Form Supplied in: white crystalline solid; widely available.

Purification: recrystallization from a minimum amount of methanol (mp 114–115 °C) or, alternatively, filtration of a benzene solution through basic alumina (activity I) and recrystallization from 5:4:2 benzene–pentane–ethyl acetate at –25 °C (mp 95–98 °C).

Handling, Storage, and Precautions: irritant, hygroscopic; protect from moisture.

Bibliography



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