



CAS Registry Number: 448-61-3

Molecular Formula: C₂₃H₁₇BF₄O

Molecular Weight: 396.191

Accurate Mass: 396.130857

Percentage Composition: C 69.73%; H 4.32%; B 2.73%; F 19.18%; O 4.04%

Use/Importance: Converts primary amines to acetates or benzoates and hydrazides to isocyanates

Physical Description: Yellow needles (1,2-dichloroethane)

Melting Point: Mp 251-257°

Aldrich: 27234-5

Fluka: 93125

>> **Derivative:** Sulfate

CAS Registry Number: 51071-75-1

Melting Point: Mp 269-271°

Aldrich: 29626-0

References:

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Lombard, R. *et al.*, *Bull. Soc. Chim. Fr.*, 1958, 1458, (*synth*)

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Balaban, A.T. *et al.*, *Tetrahedron*, 1966, **7**, 1, (*synth*)

Maroni-Bernard, Y. *et al.*, *Bull. Soc. Chim. Fr.*, 1971, 546, (*nmr, ir*)

Duffield, A.M. *et al.*, *Org. Mass Spectrom.*, 1971, **5**, 87, (*ms*)

Chadwick, T.C., *Anal. Chem.*, 1973, **45**, 985; 1974, **46**, 1326; 1975, **47**, 933, (*detn, ClO₄⁽⁻⁾, BF₄⁽⁻⁾, Au, Pt, I⁽⁻⁾*)

Org. Synth., Coll. Vol., 5, 1973, 1135-1137, (*synth*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1979, **7**, 408; **8**, 519; 520

Katritzky, A.R. *et al.*, *J.C.S. Perkin I*, 1980, 2901, (*fluoride*)

Bak, T. *et al.*, *Org. Prep. Proced. Int.*, 1994, **26**, 101, (*synth, bibl*)

Anulewicz, K. *et al.*, *Acta Cryst. C*, 1995, **51**, 1180, (*cryst struct*)