



CAS Registry Number: 335-64-8

Molecular Formula: C₈ClF₁₅O

Molecular Weight: 432.516

Accurate Mass: 431.939812

Percentage Composition: C 22.22%; Cl 8.20%; F 65.89%; O 3.70%

Use/Importance: Derivatisation reagent used in gc anal. of testosterone

Physical Description: Liq.

Boiling Point: Bp₇₄₄ 129-130°

Aldrich: 29090-4

Rare Chemicals Library: S46291-8

>>Derivative: Amide

CAS Registry Number: 423-54-1

Molecular Formula: C₈H₂F₁₅NO

Molecular Weight: 413.086

Accurate Mass: 412.989684

Percentage Composition: C 23.26%; H 0.49%; F 68.99%; N 3.39%; O 3.87%

Physical Description: Solid

Melting Point: Mp 137-139°

>>Derivative: Anhydride

CAS Registry Number: 33496-48-9

Molecular Formula: C₁₆F₃₀O₃

Molecular Weight: 810.126

Accurate Mass: 809.936835

Percentage Composition: C 23.72%; F 70.35%; O 5.92%

Use/Importance: Derivatisation reagent used in gc anal. of agricultural chemicals

Boiling Point: Bp₁₅ 100°

>>Derivative: Nitrile

CAS Registry Number: 647-12-1

Molecular Formula: C₈F₁₅N

Molecular Weight: 395.071

Accurate Mass: 394.979119

Percentage Composition: C 24.32%; F 72.13%; N 3.55%

Physical Description: Liq.

Boiling Point: Bp₇₀₅ 100-102°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 507B, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 590B, (ir)

Kauk, E.A. *et al.*, *Ind. Eng. Chem.*, 1951, **43**, 2332, (synth, use)

Gunther, R.A. *et al.*, *Ind. Eng. Chem. Prod. Res. Dev.*, 1962, **1**, 165, (use, rev)

Nakagawa, K. *et al.*, *Steroids*, 1966, **7**, 329, (use, chloride)

Ryan, J.J. *et al.*, *J. Chromatogr.*, 1977, **135**, 117, (use, anhydride)

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