



Use/Importance: Used for extraction-separation of Cd, Cr, Ir; extraction-photometric detn. of Au ($\lambda_{\max}$ 312 nm, CHCl₃)

Physical Description: Prisms (CHCl₃/petrol)

Melting Point: Mp 119-119.5°

Aldrich: 39686-9

Fluka: 86836

Sigma: T2390

>>**Derivative:** Tribromide

Molecular Formula: C₁₆H₃₆Br₃N

Molecular Weight: 482.179

Accurate Mass: 479.099782

Percentage Composition: C 39.86%; H 7.53%; Br 49.71%; N 2.90%

Source/Synthesis: Synth. from Bu₄NBr and Br₂

Use/Importance: Converts (*E*)-alkenes into *meso*- or *erythro*-dibromides and selectively α -brominates ketals

Physical Description: Light orange cryst.

Melting Point: Mp 84° (74-76°)

>>**Derivative:** Iodide

CAS Registry Number: 311-28-4

Molecular Formula: C₁₆H₃₆IN

Molecular Weight: 369.372

Accurate Mass: 369.189247

Percentage Composition: C 52.03%; H 9.82%; I 34.36%; N 3.79%

Use/Importance: Phase transfer catalyst

Physical Description: Hygroscopic

Melting Point: Mp 145-148°

Aldrich: 39690-7

Fluka: 86890

Sigma: T3638

>>**Derivative:** Iodotetrachloride

Molecular Formula: C₁₆H₃₆Cl₄IN

Molecular Weight: 511.182

Accurate Mass: 509.064655

Percentage Composition: C 37.59%; H 7.10%; Cl 27.74%; I 24.83%; N 2.74%

Use/Importance: *trans*-Chlorinating agent for alkenes

Melting Point: Mp 137-139 dec.°

>>**Derivative:** Chlorochromate

Synonym(s): TBACC

CAS Registry Number: 54712-57-1

Molecular Formula: C₁₆H₃₆ClCrNO₃

Molecular Weight: 377.914

Accurate Mass: 377.17888

Percentage Composition: C 50.85%; H 9.60%; Cl 9.38%; Cr 13.76%; N 3.71%; O 12.70%

Use/Importance: Mild, selective oxidising agent

Physical Description: Orange cryst. (EtOAc/hexane)

Melting Point: Mp 184-185°

Aldrich: 27760-6

Fluka: 86865

>>**Derivative:** Dihydrogen trifluoride

CAS Registry Number: 99337-56-1

Molecular Formula: C₁₆H₃₈F₃N

Molecular Weight: 301.478

Accurate Mass: 301.295633

Percentage Composition: C 63.74%; H 12.70%; F 18.91%; N 4.65%

Use/Importance: Used in synth. of fluoroalkenes

Other Data: Stable salt