



Synonym(s): Iodomethyl pivalate. (Pivaloyloxy)methyl iodide

CAS Registry Number: 53064-79-2

Molecular Formula: $C_6H_{11}IO_2$

Molecular Weight: 242.056

Accurate Mass: 241.980378

Percentage Composition: C 29.77%; H 4.58%; I 52.43%; O 13.22%

Boiling Point: $Bp_{0.1} \text{ ca. } ^\circ 35$

>>**Derivative:** Chloride

Synonym(s): Pivaloyl chloride

CAS Registry Number: 3282-30-2

Type of Compound Code(s): PG5300

Molecular Formula: C_5H_9ClO

Molecular Weight: 120.578

Accurate Mass: 120.034192

Percentage Composition: C 49.81%; H 7.52%; Cl 29.40%; O 13.27%

Use/Importance: Reagent for mixed anhydride peptide synth. Reagent for peptide *N*-terminal amino acid anal.

Boiling Point: Bp 105-106°

Hazard & Toxicity: Corrosive and irritating to skin, eyes and mucous membranes. Highly flammable, fl. p. 8°

Aldrich: T7260-5

Fluka: 80910

Sigma: T1514

>>**Derivative:** Amide

Synonym(s): 2,2-Dimethylpropanamide. Pivalamide. Trimethylacetamide

CAS Registry Number: 754-10-9

Molecular Formula: $C_5H_{11}NO$

Molecular Weight: 101.148

Accurate Mass: 101.084064

Percentage Composition: C 59.37%; H 10.96%; N 13.85%; O 15.82%

Physical Description: Needles or plates

Melting Point: Mp 178°

Boiling Point: Bp 212°

Aldrich: T7160-9

>>**Derivative:** Methanamide

Synonym(s): *N*,2,2-Trimethylpropanamide, 9CI. *N*-Methylpivalamide

CAS Registry Number: 6830-83-7

Molecular Formula: $C_6H_{13}NO$

Molecular Weight: 115.175

Accurate Mass: 115.099714

Percentage Composition: C 62.57%; H 11.38%; N 12.16%; O 13.89%

Melting Point: Mp 91°

Boiling Point: Bp 203-204°

Aldrich: 45145-2

Other: PB M26460

>>**Derivative:** Anilide

Synonym(s): 2,2-Dimethyl-*N*-phenylpropanamide, 9CI. Pivalanilide

CAS Registry Number: 6625-74-7

Molecular Formula: $C_{11}H_{15}NO$

Molecular Weight: 177.246

Accurate Mass: 177.115364

Percentage Composition: C 74.54%; H 8.53%; N 7.90%; O 9.03%

Physical Description: Solid

Melting Point: Mp 133.8-135°