



>>Entry Name: 2,2-Dimethylpropanal

Synonym(s): Pivalaldehyde, 8Cl. Trimethylacetaldehyde. Pivalic aldehyde

CAS Registry Number: 630-19-3

Type of Compound Code(s): PS7600 PG5250

$(\text{H}_3\text{C})_3\text{CCHO}$

Molecular Formula: $\text{C}_5\text{H}_{10}\text{O}$

Molecular Weight: 86.133

Accurate Mass: 86.073165

Percentage Composition: C 69.72%; H 11.70%; O 18.58%

Source/Synthesis: Constit. of wood spirit. Byprod. in industrial hydroformylation of isobutylene

Use/Importance: Reagent for derivatisation of amino compds. for gc anal. Intermed. in synth. of fragrances

Physical Description: Liq.

Melting Point: Mp 6°

Boiling Point: Bp 77-78°

Density: d^{17}_4 0.792

Refractive Index: n^{20}_D 1.3791

Aldrich: T7150-1

Fluka: 80869

Sigma: T8779

Other: Shell chemicals (bulk supplier)

>>Derivative: Oxime

CAS Registry Number: 637-91-2

Molecular Formula: $\text{C}_5\text{H}_{11}\text{NO}$

Molecular Weight: 101.148

Accurate Mass: 101.084064

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

Melting Point: Mp 41°

Boiling Point: Bp₂₀ 65°

>>Derivative: Semicarbazone

CAS Registry Number: 23809-33-8

Melting Point: Mp 194°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 13608-36-1

Physical Description: Orange cryst. (EtOH)

Melting Point: Mp 210°

>>Derivative: Di-Et acetal

Synonym(s): 1,1-Diethoxy-2,2-dimethylpropane, 9Cl

CAS Registry Number: 98957-93-8

Molecular Formula: $\text{C}_9\text{H}_{20}\text{O}_2$

Molecular Weight: 160.256

Accurate Mass: 160.14633

Percentage Composition: C 67.45%; H 12.58%; O 19.97%

Physical Description: Liq.

Boiling Point: Bp₇₄₂ 146-148°

References: