



Accurate Mass: 450.179088
Percentage Composition: C 66.66%; H 5.82%; N 6.22%; O 21.31%
Optical Rotation: $[\alpha]_D +10.5$ (c, 0.2 in CHCl_3)

>>**Derivative:** Nitrile, *N*-methoxycarboxyl
Synonym(s): 2-Methoxycarbonylamino-2,3-dimethylbutyronitrile

CAS Registry Number: 169309-45-9
Molecular Formula: $\text{C}_8\text{H}_{14}\text{N}_2\text{O}_2$
Molecular Weight: 170.211
Accurate Mass: 170.105528
Percentage Composition: C 56.45%; H 8.29%; N 16.46%; O 18.80%
Physical Description: Oil
Optical Rotation: $[\alpha]_D +10.5$ (c, 2 in CHCl_3)

>>**Variant:** (*S*)-form
Synonym(s): L-form

CAS Registry Number: 53940-83-3
Extra CAS Registry Numbers(s): 73473-42-4
Molecular Formula: $\text{C}_6\text{H}_{13}\text{NO}_2$
Molecular Weight: 131.174
Accurate Mass: 131.094629
Percentage Composition: C 54.94%; H 9.99%; N 10.68%; O 24.39%
Melting Point: Mp 215 dec. $^\circ$
Optical Rotation: $[\alpha]_D -4$ (c, 1.3 in H_2O)

>>**Derivative:** *N*-Benzoyl, Me ester

CAS Registry Number: 169566-75-0
Molecular Formula: $\text{C}_{14}\text{H}_{19}\text{NO}_3$
Molecular Weight: 249.309
Accurate Mass: 249.136494
Percentage Composition: C 67.45%; H 7.68%; N 5.62%; O 19.25%
Optical Rotation: $[\alpha]_D +21.5$ (c, 0.2 in CHCl_3)

>>**Derivative:** *N*-*tert*-Butoxycarbonyl, cyclohexylamine salt

CAS Registry Number: 53940-91-3
Molecular Formula: $\text{C}_{23}\text{H}_{44}\text{N}_2\text{O}_4$
Molecular Weight: 412.612
Accurate Mass: 412.330108
Percentage Composition: C 66.95%; H 10.75%; N 6.79%; O 15.51%
Melting Point: Mp 181-182 $^\circ$
Optical Rotation: $[\alpha]_{300}^{25} +32.6$ (c, 2.06 in EtOH)

>>**Derivative:** *N*-Methoxycarbonyl, Me ester

CAS Registry Number: 169309-47-1
Molecular Formula: $\text{C}_9\text{H}_{17}\text{NO}_4$
Molecular Weight: 203.238
Accurate Mass: 203.115759
Percentage Composition: C 53.19%; H 8.43%; N 6.89%; O 31.49%
Physical Description: Oil
Optical Rotation: $[\alpha]_D -2.2$ (c, 1 in CHCl_3)

>>**Variant:** ($\pm$)-form

CAS Registry Number: 26287-62-7
Molecular Formula: $\text{C}_6\text{H}_{13}\text{NO}_2$
Molecular Weight: 131.174
Accurate Mass: 131.094629
Percentage Composition: C 54.94%; H 9.99%; N 10.68%; O 24.39%