



Molecular Formula: C₂₅H₂₆N₂O₆
Molecular Weight: 450.49
Accurate Mass: 450.179088
Percentage Composition: C 66.66%; H 5.82%; N 6.22%; O 21.31%
Optical Rotation: [α]_D +10.5 (c, 0.2 in CHCl₃)

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

CAS Registry Number: 169309-45-9
Molecular Formula: C₈H₁₄N₂O₂
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: [α]_D +10.5 (c, 2 in CHCl₃)

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

CAS Registry Number: 53940-83-3
Extra CAS Registry Numbers(s): 73473-42-4
Molecular Formula: C₆H₁₃NO₂
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.°
Optical Rotation: [α]_D −4 (c, 1.3 in H₂O)

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

CAS Registry Number: 169566-75-0
Molecular Formula: C₁₄H₁₉NO₃
Molecular Weight: 249.309
Accurate Mass: 249.136494
Percentage Composition: C 67.45%; H 7.68%; N 5.62%; O 19.25%
Optical Rotation: [α]_D +21.5 (c, 0.2 in CHCl₃)

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

CAS Registry Number: 53940-91-3
Molecular Formula: C₂₃H₄₄N₂O₄
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°
Optical Rotation: [α]₃₀₀²⁵ +32.6 (c, 2.06 in EtOH)

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

CAS Registry Number: 169309-47-1
Molecular Formula: C₉H₁₇NO₄
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: [α]_D −2.2 (c, 1 in CHCl₃)

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

CAS Registry Number: 26287-62-7
Molecular Formula: C₆H₁₃NO₂
Molecular Weight: 131.174
Accurate Mass: 131.094629
Percentage Composition: C 54.94%; H 9.99%; N 10.68%; O 24.39%