



Use/Importance: Used to manuf. Asparagine [BCF96-C](#) by bacterial conversion

Physical Description: Cryst. (H₂O)

Melting Point: Mp 222-223 dec.°

>>**Derivative:** Diamide

CAS Registry Number: 627-64-5

Molecular Formula: C₄H₆N₂O₂

Molecular Weight: 114.104

Accurate Mass: 114.042928

Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 267 dec.°

Aldrich: 39255-3

>>**Derivative:** Bis(dimethylamide)

CAS Registry Number: 17878-64-7

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%

Melting Point: Mp 134.5°

>>**Derivative:** 2-Methylpropylamide

Synonym(s): 4-[(2-Methylpropyl)amino]-4-oxo-2-butenic acid, 9CI. **Fumaric acid isobutylamide**

CAS Registry Number: 174204-82-1

Molecular Formula: C₈H₁₃NO₃

Molecular Weight: 171.196

Accurate Mass: 171.089544

Percentage Composition: C 56.13%; H 7.65%; N 8.18%; O 28.04%

Biological Source: Alkaloid from *Piper hancei*

>>**Derivative:** Monoanilide

Synonym(s): Fumaranilic acid

CAS Registry Number: 4437-08-5

Molecular Formula: C₁₀H₉NO₃

Molecular Weight: 191.186

Accurate Mass: 191.058244

Percentage Composition: C 62.82%; H 4.74%; N 7.33%; O 25.11%

Physical Description: Cryst.

Melting Point: Mp 238-238.5°

>>**Derivative:** Mononitrile

Synonym(s): 3-Cyanoacrylic acid

CAS Registry Number: 42356-32-1

Molecular Formula: C₄H₃NO₂

Molecular Weight: 97.073

Accurate Mass: 97.016379

Percentage Composition: C 49.49%; H 3.11%; N 14.43%; O 32.96%

Physical Description: Cryst.

Melting Point: Mp 73-77°

>>**Derivative:** Nitrile-Me ester

Synonym(s): Methyl β-cyanoacrylate

CAS Registry Number: 925-56-4

Molecular Formula: C₅H₅NO₂

Molecular Weight: 111.1

Accurate Mass: 111.032029

Percentage Composition: C 54.05%; H 4.54%; N 12.61%; O 28.80%

Physical Description: Cryst. (1-propanol aq.)

Melting Point: Mp 32-34°

Boiling Point: Bp₃₅ 80-83°