4-(Methylamino)butyric Acid Analyzed by HPLC-AppNote

A gamma-Aminobutyric Acid (GABA) Derivative

This challenging polar compound is easily retained in this simple Method where repeatability of the data is excellent with %RSD<0.1 for the Retention Times.

Peak:

4-(Methylamino)butyric Acid

Method Conditions:

Column: Cogent Diamond Hydride™, 4µm, 100Å

Catalog No.: 70000-15P-2

Dimensions: 4.6 x 150mm

Mobile Phase:

A: DI Water with 0.1% Formic Acid

B: Acetonitrile with 0.1% Formic Acid

Time *(minutes)*	%B
0	80
5	30
6	30
7	80

Injection vol.: 1µL

Flow rate: 1.0mL / minute

Detection: ELSD (Evaporative Light Scattering Detector)

Sample Preparation: 4-(Methylamino) Butyric Acid 0.1mg / mL in 50:50 Acetonitrile / DI Water

Note: 4-(Methyamino)butyric acid is a GABA (gamma Aminobutyric Acid) derivative and product of N-methyl-2-pyrrolidione. It inhibits L-Carnitine from undergoing beta-oxidation in mammals. In bacteria it is a product of nicotine catabolism. It is found in skin products to prevent wrinkles.

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