

Product Specification Sheet

Hyacinth BMT ™

Catalog Number: NC-0101

Product Name: 5-Benzylmercaptotetrazole

Molecular Formula: C₈H₈N₄S

Molecular Weight: 192.2 g/mol

CAS Number and Name: 21871-47-6, 5-Benzyl-1H-thiotetrazole

Quality Assurance Data	Specification
Appearance in acetonitrile	Clear, no precipitation
Colour Index (APHA)	≤ 100
Melting Point	136 – 139°C
Purity by HPLC at 220 nm	≥ 99.0%
Titration	≥ 98.8%
Water Content (KF Coulometric)	≤ 500 ppm

Application Note

Hyacinth BMT ™ (5-Benzylmercapto-1H-tetrazole) is an activator for chemical synthesis of RNA and DNA and can be used as a simple substitute for 1H-Tetrazole, DCI and ETT in all protocols. In case of RNA synthesis it is compatible with both TBDMS and TOM protected monomers. It improves RNA coupling yields to 99%, requires only 3 minute coupling times, requires 50% less phosphoramidite for each coupling and is easy to handle due to low hygroscopicity

Shipping: Ambient

Store the solutions at room temperature (>15°C) to avoid crystallization Storage:

For safety instructions see GHS label! The use of this product is strictly limited to trained personnel for professional manufacturing, laboratory, or research purposes. Final Fitness-For-Use must be determined by and is the sole responsibility of the end-user.