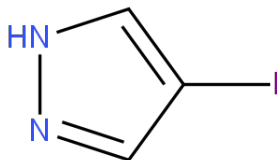




## Certificate of Analysis

Structure:



**Product Number** BM019  
**Batch Number** B00192207  
**Product Name** 4-Iodopyrazole

**CAS Number** 3469-69-0  
**Molecular Formula** C<sub>3</sub>H<sub>3</sub>IN<sub>2</sub>  
**Molecular Weight** 193.97 g / mol

| ANALYSIS                      | SPECIFICATION                 | RESULTS                       |
|-------------------------------|-------------------------------|-------------------------------|
| <i>Appearance</i>             | White to yellow to pink solid | off white solid               |
| <i>MPt (°C)</i>               | 105-110                       | 108-110                       |
| <i>GC - Ethyl acetate</i>     | ≥97%                          | 100.0%                        |
| <i>NMR - CDCl<sub>3</sub></i> | ≥97%                          | ≥99%                          |
| <i>Water content by KF</i>    | NMT 0.5%                      |                               |
| <i>IR</i>                     | Conforms                      |                               |
| <b>Notes</b>                  |                               |                               |
| <b>Storage Conditions</b>     | Store ≤ 25°C                  |                               |
| <b>Manufactured Date</b>      | 29/07/2022                    | <b>Retest Date</b> 27/07/2028 |

Prepared by:

*RChristoff*  
Signature

rchristoff

Print Name

29/07/2022

Date

Checked by:

*Mark Russell*  
Signature

Mark Russell

Print Name

29/07/2022

Date

### UNITED STATES

Boron Molecular Inc  
P.O. Box 12592  
Research Triangle Park, NC 27709  
Tel: (919)-981-4441 Fax: (919)-981-4442  
Email:sales@boronmolecular-usa.com

### AUSTRALIA

Boron Molecular Pty Limited  
Building 2, 500 Princes Hwy (Manufacture Site)  
Noble Park, Victoria, 3174  
Tel: 61-3-8558 8000  
Email:sales@boronmolecular.com