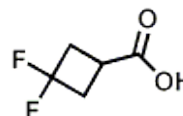


## Certificate of Analysis

Date of Manufacture: 2013-01-12      Date of Analysis: 2013-01-12  
Batch No: A20130112

Catalog No.: M111583  
Product Name: 3,3-Difluorocyclobutanecarboxylic acid  
Formula:  $C_5H_6F_2O_2$   
Molecular Weight: 136.10  
CAS Number: 107496-54-8  
MDL Number: MFCD08705857



| Items           | Specifications            | Results of Analysis       |
|-----------------|---------------------------|---------------------------|
| Appearance:     | Off-white solid           | Off-white solid           |
| $^1H$ -NMR:     | Consistent with structure | Consistent with structure |
| Assay (GC):     | 95.0%min                  | 95.5%                     |
| Loss on Drying: | $\leq 0.5\%$              | 0.16%                     |

Storage: Room Temperature, Dry  
Origin of Country: P. R. China