反应安全中心
Reactive Chemical Safety Center

DSC Testing Report for Azodicarbonamide

Report #:	ECUST-RCSC-20240312-X32		
Institute:	Reactive Chemical Safety Center at East China University of Science and Technology, Shanghai, China. RCSC@ECUST（https://rcsc.ecust.edu.cn/）		
Analyst:	Weiye Li	Test time:	2024-03-12
Reporter:	Weiye Li	Report time:	2024-04-01
Reviewer:	Min Sheng	Review time:	2025-02-10
Limits of Applicability:	The testing data generated by the RCSC@ECUST is based on specific samples from a certain supplier. During the testing process, we have made every effort to ensure the reliability of the data, but we still cannot exclude data quality issues caused by supplier differences, sample impurities, deterioration of long-term storage, testing method error, and human error. Therefore, we suggest only using RCSC testing data as a reference, and we do not assume any responsibility for any losses caused by using this data.		
Data Copyright:	Prohibit the sharing of this report on websites outside the Reactive Chemical Safety Center at East China University of Science and Technology. If you have any questions, please contact RCSC@ECUST (https://rcsc.ecust.edu.cn/).		

Chemical Names	Azodicarbonamide
Synonyms	Azodicarboxamide, Diazenedicarboxamide, Azobisformamide
Molecular Formula	NH2CON=NCONH2
Hill Notation Formula	C2H4N4O2
CAS #	123-77-3
Test	DSC_N2
Notes	Glass capillary, 0~400 ℃, 10℃/min, Nitrogen headspace

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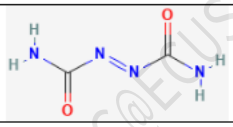
Detail information of the tested sample:

Project	Development of Reactive Chemical Database for RCSC@ECUST
Sample Description	Yellow powdery solid
Composition	
Chemical Structure	
Supplier	
Storage Information	
Sample Status	Yellow powdery solid
Other notes	

Testing Result:

1st test					
Instrument: TA DSC X3		DSC crucible: Glass Capillary		Headspace gas: N2	
Tested sample mass: 0.856 mg		Total pre-test mass: 27.472 mg		Total post-test mass: 27.471 mg	
Start Temperature: 0°C		Scan rate: 10°C/min (Twice)		End Temperature: 400°C	
#	Endo/Exo Peak	Onset T (°C)	Peak T (°C)	End T (°C)	Total Heat (J/g)
1	Exotherm	197	215	227	-1182.7
Notes:					

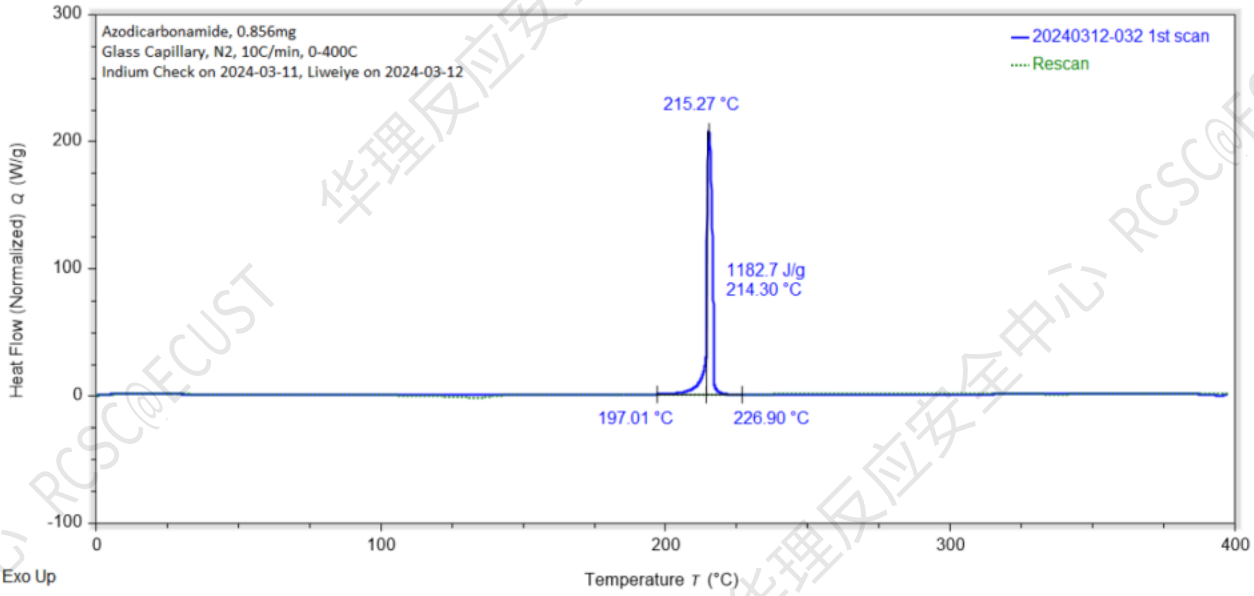


Figure 1. DSC Curve with Auto scale, the solid line represents the first scan (with integration); The dashed line represents the second scan

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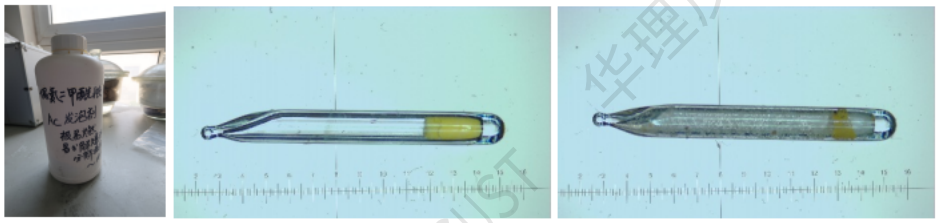

Figure 2. Tested Sample Pictures (original package, tested sample before test and after test)

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