

[CLU GmbH | Reideburger Straße 65/6 | D-06116 Halle \(Saale\)](#)

Verband der Automobilindustrie e.V. Qualitäts Management Center  
 Behrenstraße 35  
 10117 Berlin

<b>Test Report 82895</b>	<b>Sample 83698</b>	Order 187040	<b>Date Test Report</b>	14.01.2025	Page 1 of 3
<b>Purchaser</b>	Verband der Automobilindustrie e.V. Qualitäts Management Center		<b>Performance</b>	13.01.2025 bis 14.01.2025	
<b>Identification</b>	Producer: CrossChem, Moldova Batch: 002				
<b>Date of Sampling</b>			<b>Date of Receipt</b>	13.01.2025	
<b>Point of Sampling</b>			<b>Sampler</b>	Auftraggeber	
<b>Description</b>					
<b>Test order</b>	Analysis according to ISO 22241-1:2019		<b>Material/Item</b>	AdBlue	

#### Results:

##### Quality characteristics according to ISO 22241-1

Parameter	Result	Unit	min.	max.					
Appearance	colourless								
Cloudiness	clear								
Urea content	32,7	% (m/m)	31,8	33,2					
Density (20 °C)	1091	kg/m <sup>3</sup>	1087	1093					
Refractive index (nD20)	1,3834		1,3814	1,3843					
Alkalinity as NH3	< 0,05	% (m/m)		0,2					
Biuret content	0,28	% (m/m)		0,3					
Aldehydes	0,7	mg/kg		5					
Insoluble matter	< 10	mg/kg		20					
Phosphate (PO4)	< 0,1	mg/kg		0,5					
Aluminium	< 0,05	mg/kg		0,5					
Calcium	< 0,05	mg/kg		0,5					
Chromium	0,11	mg/kg		0,2					
Copper	< 0,05	mg/kg		0,2					
Iron	< 0,05	mg/kg		0,5					
Potassium	< 0,2	mg/kg		0,5					
Magnesium	< 0,05	mg/kg		0,5					
Sodium	< 0,1	mg/kg		0,5					
Nickel	0,094	mg/kg		0,2					
Zinc	< 0,05	mg/kg		0,2					
Identity (IR spectrum)	Yes, identical to the reference.								

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**Bewertung:**

The sample meets the specifications of the ISO 22241-1:2019.

Anlagen: 1. 83698\_AdBlue

**Authorized by:**

gez. Elias Flachowsky  
stellv. Laborleitung

The results refer exclusively to the sample available to the laboratory. The publication of the test results as well as their extracts in other cases requires the written approval of the laboratory. If the sampling was not carried out by the laboratory, the responsibility for their correctness is not assumed.



Deutsche  
Akkreditierungsstelle  
D-PL-14591-01-00

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Amtsgericht Stendal  
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USt-IdNr. DE 139655616

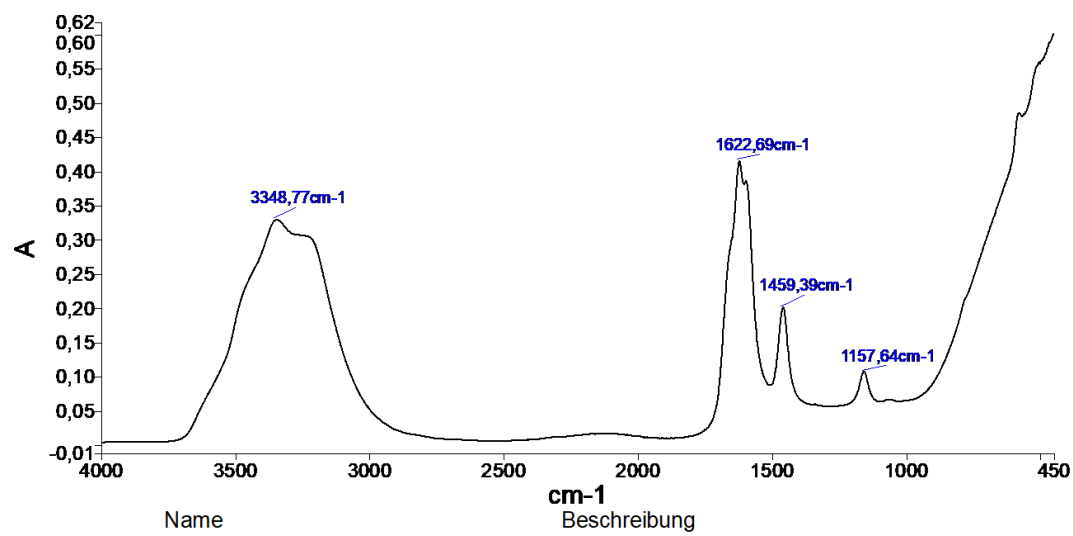
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**Methoden und Bestimmungsgrenzen:**
**Quality characteristics according to ISO 22241-1**

Parameter	Unit	Method	Limit of Quantitation
Appearance		visuell	
Cloudiness		visuell	
Urea content	% (m/m)	ISO 22241-2:2019-02 Anh. C (*A)	
Density (20 °C)	kg/m <sup>3</sup>	DIN EN ISO 12185:2024-06 (*A)	
Refractive index (nD20)		ISO 22241-2:2019-02 Anh. C (*A)	
Alkalinity as NH <sub>3</sub>	% (m/m)	ISO 22241-2:2019-02 Anh. D (*A)	0,05
Biuret content	% (m/m)	ISO 22241-2:2019-02 Anh. E (*A)	0,1
Aldehydes	mg/kg	ISO 22241-2:2019-02 Anh. F (*A)	0,5
Insoluble matter	mg/kg	ISO 22241-2:2019-02 Anh. G (*A)	10
Phosphate (PO <sub>4</sub> )	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,1
Aluminium	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,05
Calcium	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,05
Chromium	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,05
Copper	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,05
Iron	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,05
Potassium	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,2
Magnesium	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,05
Sodium	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,1
Nickel	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,05
Zinc	mg/kg	ISO 22241-2:2019-02 Anh. I (*A)	0,05
Identity (IR spectrum)		ISO 22241-2:2019-02 Anh. J (*A)	

(\*A) = Accredited Method

## Spectrum



Name

Beschreibung

83698\_AdBlue VDA e.V. Qualitäts Mana Batch: 002, Producer: CrossChem, Moldova