

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

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

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

ANSCHRIFT
CLU GmbH
Chemisches Labor für Umweltanalytik Halle
Reideburger Straße 65/6
D-06116 Halle (Saale)

KOMMUNIKATION
Telefon: +49 (0) 345 - 3881046
Telefax: +49 (0) 345 - 4789853
E-Mail: info@clu-halle.de
Web: www.clu-halle.de

BANK
Hypovereinsbank
BIC/SWIFT HYVEDEMM300
IBAN DE78 2003 0000 0016 0050 76

RECHTLICHES
Geschäftsführer Dr. Tony Anacker
Uwe Hartmann
Dr. Gunnar Winkelmann
Handelsregister HRB 204628
Amtsgericht Stendal
Steuer-Nr. 110/107/10326
USt-IdNr. DE 139655616

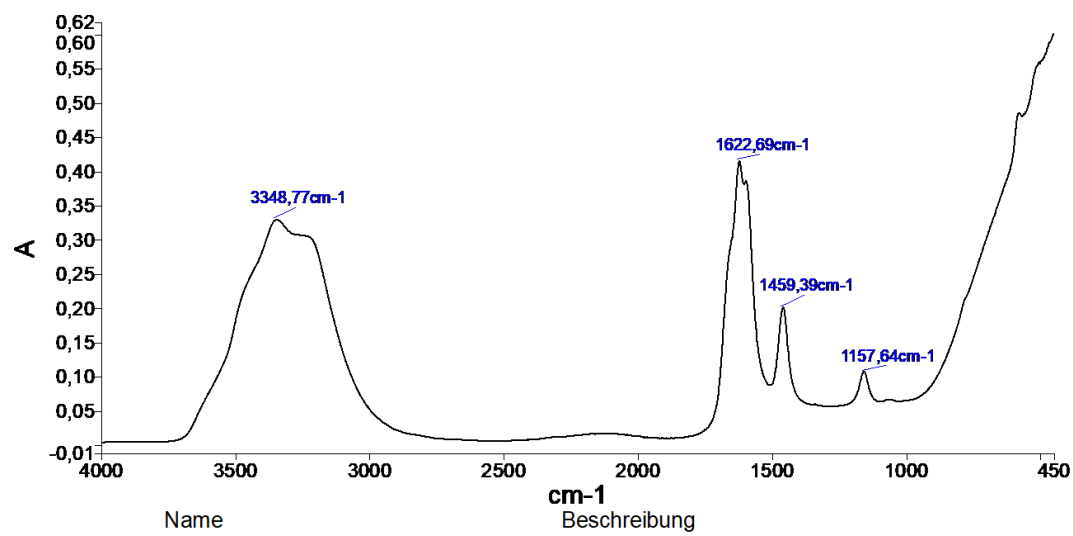
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Methoden und Bestimmungsgrenzen:
Quality characteristics according to ISO 22241-1

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 ³	DIN EN ISO 12185:2024-06 (*A)	
Refractive index (nD20)		ISO 22241-2:2019-02 Anh. C (*A)	
Alkalinity as NH ₃	% (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 ₄)	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