

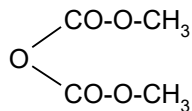
## Product specification

LANXESS Deutschland GmbH  
Business Unit Material Protection Products  
D-50569 Köln

Spec. no. SPM00000018E  
Issue 015  
Material-no. 00673404  
Date 2023-11-30  
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### VELCORIN

CAS no. 4525-33-1  
Chemical Description Dimethyl dicarbonate  
Common name -  
Empirical formular C4 H6 O5  
Structural formular



### Description

Colourless, slightly pungent smelling liquid

### Spezifikation

Characteristic	Specification	Unit	
01. Appearance			
Visual Description	complies		
02. Content			
Gaschromatographic AFAM 2322-3013901-13D			
Dimethyl dicarbonate	>= 99.8	%	1)
Dimethyl carbonate	<= 0.2	%	
03. Content			
Micro coulometry AFAM 2322-3017701-18E			
Chlorine (Cl)	<= 3	mg/kg	2)
04. Density			
Oscillation densitimeter AFAM 2301-0216003-01D			
DIN 51757			
Temperature	= 20	°C	
Density	1.20 - 1.30	g/cm <sup>3</sup>	
05. Content			
Atomic absorption spectrometric method DIN EN ISO 11969			
Arsenic (As)	<= 0.5	mg/kg	3)
06. Content			
Atomic absorption spectrometric method DIN EN 1483			
Mercury (Hg)	<= 1	mg/kg	3)
07. Content			
Plasma atomic emission spectroscopy DIN EN ISO 11885			
Lead (Pb)	<= 1	mg/kg	3)
08. Content			
Limiting test AFAM 2301-0109002-88D			
Heavy metals (as lead, Pb)	<= 1	mg/kg	4)
09. EU Directive			5)

Replaces Issue: 014, 2021-07-26  
Reason: change of specification

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Specification values are subject to constant monitoring

- 1) Alternative: Volumetric AFAM 2301-0094303-95D
- 2) Alternative: Volumetric AFAM 2301-0256302-97D
- 3) Alternative: ICP-OES, AFAM 2322-3017201-18E; ICP-MS AFAM 2011-0366401-92D after high-pressure microwave digestion AFAM 2011-0606601-05D
- 4) Alternative: ICP-OES, AFAM 2322-30117301-18E
- 5) The product meets the specific purity requirements of the Annex to Commission regulation (EU) No. 231/2012 of 9 March, 2012 (laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council) for E242 dimethyl dicarbonate.

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### Storage

If correctly stored and kept in the original sealed container the shelf life of Velcorin is 18 months.  
A storage temperature of 20°C – 30°C must be maintained.

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### Further Information

The safety data sheet should be observed. This contains further information on labelling, transport and storage as well as information on handling, product safety and ecology. For additional technical information see "Safety precautions when handling Velcorin".

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