

Substance Sameness Information Sheet Charcoal

CAS No: 16291-96-6

EC No: 240-383-3

Content	Page
General Information	2
Typical Composition	3
Other Information	3
Recommended Testing Procedure,	3
Explanation of Sameness Strategy	3
Revisions	4

Project	R603 8997			Rev	01	
Title	Substanc	Substance Sameness Information Sheet			1 of 4	
Issued	Checked	Checked Date: Document Name				
		21.03.2023		R603 8997/SSIS/0002		

General SIEF Information

Substance Name: Charcoal

Composition: UVCB

Origin: Organic

Description: Charcoal is the residue of solid organic matter of wooden

origin, that results from carbonization by heat in the ab-

sence of air at >300°C.

All tests for the registration dossier were made with charcoal from untreated wood. The results for charcoal from recovered or treated wood are not necessarily comparable.

EC No.: 240-383-3

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CAS Name: Charcoal

IUPAC Name: Charcoal

Synonyms: -

Molecular Formula: C

Structural Formula:

C

Molecular Weight: not available

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R603	

Project	R603 8997			Rev	01	
Title	Substance Sameness Information Sheet			Page	2 of 4	
Issued	Checked	Date:	Document Na	Document Name		
		21.03.2023		R603 8997/SSIS/0002		

Typical Composition

Constituents: Content of elemental $C \ge 78\%$

(max -5% due to manufacturing fluctuations)

Content of the sum of C, O, H, N > 96%.

The charcoal may not contain any elements that lead to a

classification.

Other Information

CMR Cat. 1 or 2:

R50/53: -

Recommended Testing Procedure

The charcoal test item should be air-dried (ad: 30°C for 72h). The elemental composition of a charcoal test item should be analysed using combustion analysis and X-ray fluorescence (XRF).

Combustion analysis should be performed to determine the content of carbon, hydrogen, nitrogen, and oxygen (separately and combined). XRF should be used to quantify further elements that may lead to a classification.

Important: Please note, that the requirements for submitting an Inquiry-Dossier differ from the requirements that fulfill the sameness criteria of the Joint Submission!

Explanation of Sameness Strategy

Charcoal is a UVCB substance and these are defined by their material of origin and the manufacturing process. The main identifier is the definition of the material of origin and the manufacturing process, not the chemical composition. The definition used for the charcoal registration can be found in the General Information (see "Description").

An additional criteria is the content of the sum of C, N, H and O and the content of elemental carbon. In pre-tests with different kinds of charcoal from all over the world, it was found that there are no dangerous components in charcoal to be expected if the test items can be described with the definition and meet the specifications in "Typical Composition".

Project		R603 8997			01	
Title	Subs	Substance Sameness Information Sheet			3 of 4	
Issued	Checked	Date:	Document Na	Document Name		
		21.03.2023	F	R603 8997/SSIS/0002		

Volatile content (as in DIN EN 1860) is not build before the process of heating itself (as part of the test procedure). For the REACH Registration charcoal should be tested as it is. In pre-tests no relevant content of volatiles was found in charcoal at room-temperature. Therefore, the volatile content is not part of the Substance Sameness Definition.

Overview Revisions

	Revision	Description	Originator	Date
1	00	First Issue (based on R601/SSIS/0019)	AF	06.11.2013
2	01	Update information regarding recommended testing procedure	MS	09.05.2016

Project		R603 8997	Rev	01		
Title	Subs	Substance Sameness Information Sheet			4 of 4	
Issued	Checked	Date:	Document N	Document Name		
		21.03.2023		R603 8997/SSIS/0002		