

General remarks

The applicable VAT is added to the prices quoted. The gliding price scale applies only for bulk tests. In all other cases, the prices charged depend on the respective number of samples tested and/or provided.

A surcharge of 25% is levied for urgent orders requiring results within three to four days of receipt of the samples.

Notification of urgent orders is to be given, or we are to be consulted, at least one week prior to the scheduled arrival of the samples at DIK.

Upon completion of the analysis, you can, of course, reclaim the samples submitted. As a rule, DIK does not retain samples (solid materials) any longer than three months. Kindly consult us in the event that longer retention by DIK is required.

Execution of all work is governed by our General Standard Terms and Conditions [Allgemeine Geschäftsbedingungen (AGB)].

Further information

Recognized and optimized procedures are applied for measurements on-site (authorized laboratory DIK) and for the analysis of raw, industrial and other materials. We gladly advise you in the selection of suitable analytic methods for achieving the relevant objectives.

Within the framework of short- and long-term projects we would be pleased to fulfill special requests not covered by our standard range of services.

Contact

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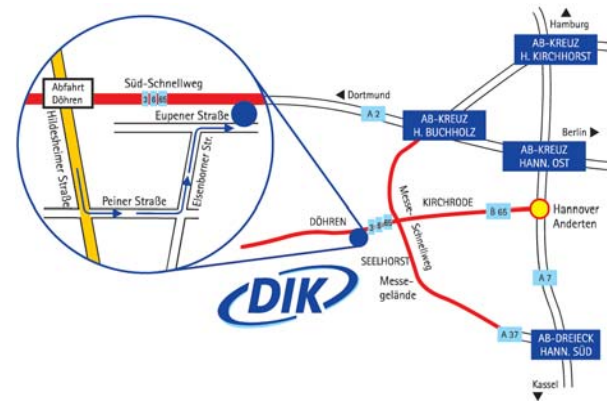
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Contact persons for nitrosamine analysis:

Dr. U. Giese (Elastomer chemistry) -43
B. Schwiedland (test laboratory "nitrosamines") -40

Contact persons

Prof. Dr. R. H. Schuster (Managing director)
Dr. Th. Alshuth (Elastomer physics)
Dr. H. Geisler (Material development)
Dr. M. Klüppel (Material concepts)
Prof. Dr. E. Haberstroh (Processing methodology)
Prof. Dr. J. Ihlemann (Simulation and continuum mechanics)



Workplace Air Monitoring

Highly volatile nitrosamines

Nitrosamine Analysis

Information and price list

June 1, 2009



About nitrosamine analysis

Take advantage of DIK's know-how born of many years of experience in analytic studies and testing as well as extensive research into the formation and avoidance of nitrosamines.

Nitrosamine measurements at the workplace as per article 9 (6) of the Germans Hazardous Substances Regulations:

The sampling for and the execution of all analyses is effected in compliance with the pertinent directives (TRGS 552 and TRGS 402 [TRGS = Technical Rules for Hazardous Substances of the Federal Institute for Occupational Safety and Health]) and in accordance with DIK's accreditation to DIN EN ISO/IEC 17025.

Once the report has been drawn up, the samples (adsorption tubes) and eluates submitted are only retained for approx. four weeks.

The analysis as per 1.–4. covers the following high volatile N-nitrosamines:

N-nitrosodimethylamine	(NDMA)
N-nitrosoethylmethylamine	(NEMA)
N-nitrosodiethylamine	(NDEA)
N-nitrosodiisopropylamine	(NDiPA) ¹⁾
N-nitrosodi-n-propylamine	(NDPA)
N-nitrosodi-n-butylamine	(NDBA)
N-nitrosopiperidine	(NPIP)
N-nitrosopyrrolidine	(NPYR)
N-nitrosomorpholine	(NMOR)

and the following low volatile nitrosamines:

N-nitrosomethylphenylamine	(NMPA)
N-nitrosoethylphenylamine	(NEPA)

¹⁾ Not in the case of analyses as per 2. and 3.

Price list

Gliding price scale, prices per sample, in EUR

Measurement organization for high volatile nitrosamine	No. of samples		
	1 - 5	6 - 10	> 10
On-site sampling by DIK staff, analysis and preparation of test report, plus	280,--	220,--	175,--
• Return travel expenses for one staffer	hourly wage	90,-- EUR	
• Presence at company	hourly wage	90,-- EUR	
• Mileage	per km	0,45 EUR	
• Expenses	per diem	35,-- EUR	

Nitrosamine analysis			
1. Analysis of air samples (Thermosorb^N-tubes)			
Analysis of samples submitted, as per BGL 505-23, edition of Sept.1992, procedure No. 4	190,--	165,--	145,--
2. Analysis of vulcanizates, compounds and polymers by means of methanol extraction			
Determination of high volatile or low volatile nitrosamines (double determination)	355,--	335,--	322,--
Determination of high volatile or low volatile nitrosamines (single determination)	200,--	190,--	185,--
High volatile or low volatile nitrosamines (double determination)	510,--	480,--	470,--
High volatile or low volatile nitrosamines (single determination)	290,--	280,--	275,--
3. Analysis of rubber articles etc. to BGBl 27/1984 (BGA method or DIN EN 12868)*			
Determination of high volatile or low volatile nitrosamines	430,--	410,--	390,--
High volatile or low volatile nitrosamines	580,--	560,--	520,--
* Alongside the N-nitrosamines themselves, the corresponding nitrosatable substances content is determined as N-nitrosamines.			
4. Analysis of evaporative N-nitrosamines from elastomer products and other matrices in cell testing (e.g. to PBVWL717)			
Determination of high volatile nitrosamines	No. of samples		
	1 - 5	> 5	
	1.150,--	1.100,--	

Kindly consult with us regarding special rates for larger numbers of samples.