

## Primary Aromatic Amines From Printed Food Contact

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### Primary Aromatic Amines From Printed

Primary aromatic amines from printed food contact materials such as napkins or bakery bags BfR Opinion No 021/2014 of 24 July 2013 Some substances in the group of primary aromatic amines (PAAs) are carcinogenic. PAAs can, for example, occur as contaminants in colour pigments. They can pose a health risk in

### Primary aromatic amines from printed food contact ...

Primary aromatic amines are amines with aromatic substituents; the simplest of these is the anilin (see structural formula). PAAs are substances that are used, e.g. in the production of specific pigments or so-called azo dyes, and remain in the pigment as a contaminant. Some PAAs are known to be cancerous for humans.

### CVUA Stuttgart | Primary Aromatic Amines i...

The standard describes a procedure to detect EU banned aromatic amines derived from azo colorants in textile fibres, including natural, man-made, regenerated, and blended fibres. The standard is also relevant for all coloured textiles, e.g. dyed, printed, and coated textiles.

### Aromatic amine - Wikipedia

A rapid and sensitive LC-MS/MS method for the identification, quantification and confirmation of six primary aromatic amines (PAAs) was developed and validated to ISO 17025:2005. From a literature survey, 57 frequently used PAA compounds were identified and subsequently reduced to six - aniline, 4,4 ...

### Primary aromatic amine migration from polyamide kitchen ...

For example, primary aromatic amines (PAA) can transfer to foods as impurities of pigments used for printing packaging materials or even paper napkins. Several PAA have carcinogenic and mutagenic properties. If they have contact over longer periods, PAA can transfer to food and then be ingested by humans. stay open.

### Frequently Asked Questions about Printing Inks and Primary ...

Primary aromatic amines (PAAs) are widely used chemicals in industry. Contamination of foodstuffs with PAAs can originate from printing azo-dyes, azo-pigments, isocyanate-based adhesives and monomers present in plastics, paper napkins and printed or recycled paper used for food packaging.

### Determination of primary aromatic amines in cold water ...

Polycyclic aromatic amines are organic compounds that consist of an amine substituent (e.g., NH2 or NO 2) attached to an aromatic structure that consists of two or more rings. Occupational exposure to polycyclic aromatic amines has been associated with the rubber, textile, and dye industries.

### Aromatic Amines - an overview | ScienceDirect Topics

The aim of this study was to identify of primary aromatic amines (PAAs) and to determine their migration from plastic food packaging. The magnitude of the migration of these substances from plastic food packaging consists a base for the evaluation of their compliance with the requirements of EU legislation and hazard for human health taking ...

### [Studies on primary aromatic amines (PAAs) migration from ...

Primary aromatic amines (PAA) may be present as impurities in azo dyes, especially in yellow, orange and red pigments. These dyes are used in printing inks for consumer goods, e.g. paper bags or napkins. A survey of CVUA (Chemical and Veterinary State Laboratory) in 2014 shows that relevant amounts of PAA migrate from printed paper napkins and paper bags from bakeries into food.

### Danger by Primary Aromatic Amines - GALAB Laboratories

Aromatic amines (such as aniline) found in cigarettes and industrial emissions are carcinogens that increase the risk for lung cancer. In fact, aromatic amines, such as aniline, are found in the breath and urine of most smokers. Although a complete recovery from lung cancer might be possible if found at an early stage, over one million people prematurely die from this disease every year.

### Aromatic Amine - an overview | ScienceDirect Topics

Some examples of primary alkyl amines include amino acids and methylamine while primary aromatic amines include aniline. Also Read: Aromatic Compounds. Secondary Amines (2 0 Amines) Secondary amines are those amines that have two organic substituents either alkyl or aryl ones or both. They are bound to the nitrogen together with one hydrogen. A ...

### Amine - Definition, Types, Structure, Basicity, Production ...

Primary Aromatic Amines (PAAs) are a class of compound of which the simplest form is aniline. PAAs are substances that are used, for example, in the production of certain colorants, so- called azo pigments, notably in the color range yellow-orange- red.

### Rapid Determination of 33 Primary Aromatic Amines in ...

On June 22, 2017 the German Federal Institute for Risk Assessment (BfR) published a Frequently Asked Questions (FAQ) article about printing inks and primary aromatic amines (PAAs) in food contact materials (FCMs). "Unless countermeasures have been taken, printing inks contain substances which can transfer to food and be ingested by consumers," the BfR informs.

### Information about PAAs in printing inks | Food Packaging Forum

Primary aromatic amines, such as aniline (phenylamine) forms a more stable diazonium ion at 0–5°C. Above 5°C, it will decompose to give phenol and N 2. Diazonium salts can be isolated in the crystalline form but are usually used in solution and immediately after preparation, due to rapid decomposition on standing even with little ambient heat.

### 23.3. Reactions of amines | Organic Chemistry II

Important primary alkyl amines include, methylamine, most amino acids, and the buffering agenttris, while primary aromatic amines include aniline. Secondary (2°) amines—Secondary amines have two organic substituents (alkyl, aryl or both) bound to the nitrogen together with one hydrogen.

### Amine - Wikipedia

Primary aliphatic amines display two well-defined peaks due to asymmetric (higher frequency) and symmetric N-H stretching, separated by 80 to 100 cm-1. In aromatic amines these absorptions are usually 40 to 70 cm-1 higher in frequency. A smaller absorpction near 3200 cm-1 ...

### 25.5 Spectroscopic Properties of Amines - Chemistry LibreTexts

These limits may be tightened in the future. In a position paper prepared by BfR, the German Federal Institute for Risk Assessment, on aromatic amines migrating from printing inks an individual limit of 2 ppb per specific PAA is recommended in addition to the overall limit of 10 ppb.

### What you need to know about primary aromatic amines (PAA)

Danish testing of printed paper packaging On July 9, 2019, the non-governmental organization (NGO) the Danish Consumer Council announced the results of a study examining single-use food contact packaging articles for the presence of primary aromatic amines (PAAs) and UV filters.