

# o-Toluidine – Addendum for re-evaluation of the BAR

## Assessment Values in Biological Material – Translation of the German version from 2012

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o-toluidine, BAR, biological reference value, biomonitoring

<b>BAR (2009)</b>	<b>0.2 µg o-toluidine (after hydrolysis)/l urine<sup>a)</sup></b> Sampling time: end of exposure or end of shift
<b>MAK value</b>	<b>not established</b>
Absorption through the skin (1986)	H
Carcinogenicity (2006)	Category 1

<sup>a)</sup> evaluated for non-smokers

## Re-evaluation of the BAR

To derive the biological reference value (BAR) of 0.2 µg o-toluidine/l urine in 2009 (translated in Ochsmann 2021), the studies by Kütting et al. (2009), Schettgen et al. (2001) and Weiss (2005) were used. In these studies, analytical procedures were used in which an acid hydrolysis was carried out in sample preparation. This meant that, in addition to free o-toluidine, the conjugated form of the substance excreted with the urine was also detected.

The necessity to perform hydrolysis is herewith added, so that for o-toluidine

### **the BAR of 0.2 µg o-toluidine (after hydrolysis)/l urine**

evaluated for non-smokers, is established. Sampling should be carried out at the end of exposure or end of shift.

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## Notes

### Competing interests

The established rules and measures of the Commission to avoid conflicts of interest ([https://www.dfg.de/en/dfg\\_profile/statutory\\_bodies/senate/health\\_hazards/conflicts\\_interest/index.html](https://www.dfg.de/en/dfg_profile/statutory_bodies/senate/health_hazards/conflicts_interest/index.html)) ensure that the content and conclusions of the publication are strictly science-based.

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