

Acute Inhalation Toxicity

Butanedioic acid

Methods

To confirm acute inhalation toxicity of butanedioic acid, 3 male and 3 female rats were nose-only exposed to butanedioic acid at 5 mg /L concentration for 4 hours. It was measured the concentration of butanedioic acid, particle size distribution and the chamber environment during the exposure time. Clinical signs and body weight changes were recorded for 14 days after the end of the exposure, and gross findings were observed after necropsy.

Results

The mean concentration of butanedioic acid was 4.878 ± 0.228 mg/L during the exposure time. The aerosol mass median aerodynamic diameter (MMAD) was $5.096 \mu\text{m}$, and the geometric standard deviation (GSD) was 1.8. It was not observed abnormal clinical sign, body weight changes, and specific gross findings in all animals.

Butanedioic
acid 4.878 ± 0.228
mg/L

MMAD

 5.096
 μm

GSD

1.8

Conclusion

GHS Classification - Acute toxicity (inhalation - dusts and mists) :
Unclassified ($\text{LC}_{50} > 5.0 \text{ mg/L}$)

Laboratory



Chemicals Research Bureau, Occupational Safety & Health Research Institute
30, Expo-ro 339beon-gil, Yuseong-gu, Daejeon, 34122, Republic of Korea

Tel. +82-42-869-8541 **Fax.** +82-42-869-8691 **Homepage.** <http://oshri.kosha.or.kr/eoshri>

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