

New Jersey Department of Environmental Protection  
Division of Air Quality  
Bureau of Evaluation and Planning  
Air Quality Evaluation Section

**REVISIONS TO THE NJDEP/DAQ INHALATION TOXICITY VALUES  
AND THE RISK SCREENING WORKSHEET**

February 19, 2016

The NJDEP Division of Air Quality list of inhalation toxicity values and the risk screening worksheet have been updated.

Specific changes to the unit risk factors (URFs), long-term reference concentrations (RfCs), and short-term RfCs are noted below. The revisions are incorporated into the list of “Toxicity Values for Inhalation Exposure,” dated February 1, 2016. This replaces the list dated August 2011. The list, which includes references, can be found at [www.nj.gov/dep/aqpp/risk.html](http://www.nj.gov/dep/aqpp/risk.html).

***Unit Risk Factors***

**Changes (all values are in units “per  $\mu\text{g}/\text{m}^3$ ”)**

Chloroprene – Corrected from 3E-4 (IRIS) to 5E-4 (IRIS)  
1,4-Dioxane - Changed from 7.7E-6 (IRIS) to 5E-6 (IRIS)  
Hexachloroethane – Changed from 4E-6 (IRIS, deleted) to 1.1E-5 (Cal 15b)  
Methylene chloride – Changed from 4.7E-7 (IRIS) to 1.3E-8 (IRIS)  
Trichloroethylene – Changed from 2E-6 (Cal) to 4.8E-6 (IRIS)

**Deletions**

Ethyl acrylate (USEPA 85)

**Additions**

Bromodichloromethane (Cal 15b)  
Dibromochloromethane (USEPA 14)

***Reference Concentrations (Long-Term)***

**Changes (all values are in  $\mu\text{g}/\text{m}^3$ )**

Acetone cyanohydrin – Changed from 60 to 2 (USEPA 14)  
Benzene – Changed from 30 (IRIS) to 3 (Cal 14)  
Dichlorodifluoromethane – Changed from 200 (HEAST 97) to 100 (USEPA 14)  
Dicyclopentadiene – Changed from 7 to 0.3 (USEPA 14)  
Diethylene glycol monobutyl ether – Changed from 20 to 0.1 (USEPA 14)  
Methylene chloride – Changed from 400 (Cal 08) to 600 (IRIS)  
Nickel and compounds – Changed from 0.05 (Cal 08) to 0.014 (Cal 14)  
Nickel oxide – Changed from 0.1 (Cal 08) to 0.02 (Cal 14)  
o-Nitroaniline – Changed from 0.1 to 0.05 (USEPA 14)  
1,2,4-Trichlorobenzene - Changed from 4 to 2 (USEPA 14)  
Tetrachloroethylene – Changed from 35 (Cal) to 40 (IRIS)  
Trichloroethylene – Changed from 600 (Cal 09a) to 2 (IRIS)

**Additions**

Bromochloromethane (USEPA 14)  
Caprolactam (Cal 14)  
Chloroform (Cal 14)  
1,4-Dioxane (IRIS)  
Ethyl acrylate (USEPA 14)  
Ethylene glycol monoethyl ether acetate (Cal 14)  
Hexachloroethane (IRIS)  
Mercury (inorganic) (Cal 14)  
2,3,7,8-Tetrachlorodibenzo(p)dioxin (Cal 15a)  
Tetrahydrofuran (IRIS)

***Short-Term Reference Concentrations*****Changes (all values are in  $\mu\text{g}/\text{m}^3$ )**

Benzene – Changed from 1300 (Cal 08) to 27 (Cal 14)  
Nickel and compounds – Changed from 6 (Cal 08) to 0.2 (Cal 14)

**Additions**

1,3-Butadiene (Cal 14)  
Caprolactam (Cal 14)  
Trichloroethylene (IRIS)  
Vanadium (ATSDR)

***Other***

1,1-Biphenyl – corrected CAS number