

INSTRUCTIONS FOR TABLE 5.2

NON-CANCER TOXICITY DATA - INHALATION

<p>PURPOSE OF THE TABLE:</p> <ul style="list-style-type: none"> To provide information on RfCs, RfDs, target organs, and adjustment factors for chemicals To provide RfC to RfD adjustment factors To verify references for non-cancer toxicity data. 	
<p>INFORMATION DOCUMENTED:</p> <ul style="list-style-type: none"> The RfDs for each of the COPCs, as well as modifying factors and RfC to RfD adjustments The primary target organ effects of each of the COPCs References for RfCs and organ effects. 	<p><i>Surrogate toxicity values can also be entered in this table and indicated in the Source(s) column or with a footnote.</i></p>
<p>TABLE NUMBERING INSTRUCTIONS:</p> <ul style="list-style-type: none"> Complete one copy of this table only. Number it Table 5.2. The table should contain a row for each COPC considered. 	<p><i>If chronic and subchronic effects are listed for the same COPC, two rows will be required.</i></p>
<p>GENERAL NOTES/INSTRUCTIONS FOR THIS TABLE:</p> <ul style="list-style-type: none"> Table 5.2 does not replace the toxicological profiles for the individual chemicals that will be presented in the risk assessment. 	<p><i>It may be necessary to refer to RAGS, the risk assessment technical approach, and EPA Regional guidance to complete the table.</i></p>
<p>HOW TO COMPLETE/INTERPRET THE TABLE:</p>	
<p>Column 1 - Chemical of Potential Concern</p>	
<p>Definition:</p> <ul style="list-style-type: none"> Chemicals that are potentially site-related, with data of sufficient quality, that have been retained for quantitative analysis as a result of the screening documented in Table 2. 	
<p>Instructions:</p> <ul style="list-style-type: none"> Enter the names of the chemicals that were selected as COPCs from Table 2. 	<p><i>Chemicals can be grouped in the order that the risk assessor prefers. Class descriptions can be included as a row before a group of chemicals.</i></p>
<p>Column 2 - Chronic/Subchronic</p>	
<p>Definition:</p> <ul style="list-style-type: none"> Identifies whether the RfC or RfD for a particular chemical is for chronic (long-term) and/or subchronic (short-term) exposure. 	

Instructions:

- Enter either “Chronic” or “Subchronic” in the field. Both values may be available for an individual chemical.
- “Subchronic” values may not be available or necessary for an individual COPC. If that is the case, enter “Chronic” in Column 2.

Chronic
Subchronic

INSTRUCTIONS FOR TABLE 5.2

NON-CANCER TOXICITY DATA - INHALATION (continued)

Column 3 - Inhalation RfC Value	
<p>Definition:</p> <ul style="list-style-type: none"> The RfC value for each of the COPCs. 	
<p>Instructions:</p> <ul style="list-style-type: none"> Enter the value for the chronic and/or subchronic oral RfC (as appropriate). 	
Column 4 - Inhalation RfC Units	
<p>Definition:</p> <ul style="list-style-type: none"> The RfC units for each chemical detected. 	
<p>Instructions:</p> <ul style="list-style-type: none"> Enter units for each RfC as necessary. 	<p><i>Consult the EPA risk assessor to determine if there is a preference regarding the units to be used.</i></p>
Column 5 - Extrapolated RfD Value	
<p>Definition:</p> <ul style="list-style-type: none"> The inhalation RfD for each COPC that is derived from the RfC value if an RfD is used to calculate risk instead of the RfC. 	<p><i>The derivation of the RfD from an RfC should be performed as directed by the EPA risk assessor.</i></p>
<p>Instructions:</p> <ul style="list-style-type: none"> Enter the derived RfD factor in this column. In a footnote on this table, reference the section of the risk assessment text where the derivation of the adjusted RfDs can be found. 	<p><i>The equation to derive the RfD from the RfC is to be included as a footnote in the table.</i></p>
Column 6 - Extrapolated RfD Units	
<p>Definition:</p> <ul style="list-style-type: none"> The Extrapolated RfD units for each COPC. 	
<p>Instructions:</p> <ul style="list-style-type: none"> Enter units for each Extrapolated RfD value as necessary. 	<p><i>Consult the EPA risk assessor to determine if there is a preference regarding the units to be used.</i></p>
Column 7 - Primary Target Organ(s)	
<p>Definition:</p> <ul style="list-style-type: none"> The organ that is most affected (i.e., experiences critical effects) by chronic or subchronic exposure to the specific COPC, and upon which the RfD/RfC is based. 	

INSTRUCTIONS FOR TABLE 5.2

NON-CANCER TOXICITY DATA - INHALATION (continued)

<p>Instructions:</p> <ul style="list-style-type: none"> • Enter the name of the most affected organ or organ system in the column. • If the critical effect (the one on which the RfD/RfC is based) involves multiple target organs, they should all be shown, separated by './' Target organs affected at higher doses should not be shown. 	
Column 8 - Combined Uncertainty/Modifying Factors	
<p>Definition:</p> <ul style="list-style-type: none"> • The factors applied to the critical effect level to account for areas of uncertainty inherent in extrapolation from available data. 	<p><i>Refer to IRIS, HEAST, or other source for these values. Examples of uncertainty to be addressed include:</i></p> <ul style="list-style-type: none"> - variations in the general population - interspecies variability between humans and animals - use of subchronic data for chronic evaluation - extrapolation from LOAELs to NOAELs.
<p>Instructions:</p> <ul style="list-style-type: none"> • Enter number obtained from IRIS, HEAST, or other source. 	<p><i>Refer to IRIS, HEAST, or other source for these values.</i></p>
Column 9 - RfC: Target Organ(s) Source(s)	
<p>Definition:</p> <ul style="list-style-type: none"> • The sources of the RfC and target organ information. 	
<p>Instructions:</p> <ul style="list-style-type: none"> • Enter the sources of the RfC and target organ information. Use a colon to delineate between multiple information sources if the sources of information are different for RfC and target organ. 	<p><i>IRIS HEAST NCEA OTHER</i></p>
Column 10 - RfC: Target Organ(s) Date(s) (MM/DD/YYYY)	
<p>Definition:</p> <ul style="list-style-type: none"> • The dates of the documents that were consulted for the RfC and target organ information in MM/DD/YYYY format. 	<p><i>The MM/DD/YYYY format refers to month/day/year.</i></p>

Instructions:

- Enter the dates, in MM/DD/YYYY format, for RfC and target organ information. Use a colon to delineate between multiple dates if the dates of information are different for RfC and target organ.
- *For IRIS references, provide the date IRIS was searched.*
- *For HEAST references, provide the date of the HEAST reference.*
- *For NCEA references, provide the date of the information provided by NCEA.*

For example, the MM/DD/YYYY version of the date March 30, 1995 is 03/30/1995.