# National Institute of Standards and Technology Accessibility Conformance Report

# **Revised Section 508 Edition**

(Based on VPAT<sup>®</sup> Version 2.4)

Name of Product/Version: NIST Reference Fluid Thermodynamic and Transport Properties Database (REFPROP): Version 10.0

Report Date: November 10, 2021

Product Description: A computer program to compute the thermophysical properties of common industrial fluids and their mixtures including refrigerants, cryogens, and hydrocarbons.

Contact Information: Sales: <u>data@nist.gov</u> Technical details: <u>refprop@nist.gov</u>

Notes: This is not a web-based product. It is designed to run under Windows.

**Evaluation Methods Used:** General product knowledge, assistive technologies (NVDA\_2021.2)

<sup>&</sup>quot;Voluntary Product Accessibility Template" and "VPAT" are registered service marks of the Information Technology Industry Council (ITI)

## **Applicable Standards/Guidelines**

This report covers the degree of conformance for the following accessibility standard/guidelines:

Standard/Guideline	Included In Report
Web Content Accessibility Guidelines 2.0	Level A (Yes)
	Level AA (Yes)
	Level AAA (No)
Revised Section 508 standards published January 18, 2017 and corrected January 22, 2018	(Yes)

### Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports**: The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- Partially Supports: Some functionality of the product does not meet the criterion.
- Does Not Support: The majority of product functionality does not meet the criterion.
- Not Applicable: The criterion is not relevant to the product.
- Not Evaluated: The product has not been evaluated against the criterion. This can be used only in WCAG 2.0 Level AAA.

## WCAG 2.0 Report

Tables 1 and 2 also document conformance with Revised Section 508:

- Chapter 5 501.1 Scope, 504.2 Content Creation or Editing
- Chapter 6 602.3 Electronic Support Documentation

Note: When reporting on conformance with the WCAG 2.0 Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the <u>WCAG 2.0 Conformance Requirements</u>.

#### Table 1: Success Criteria, Level A

Notes:

Criteria	Conformance Level	Remarks and Explanations
<ul> <li>1.1.1 Non-text Content (Level A)</li> <li>Also applies to:</li> <li>Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Partially supports	The software generates plots and tables. Some, but not all, plots can be expressed as tabular information. Program may be used with 3 <sup>rd</sup> party applications such as Excel that may allow creation of compliant spreadsheets.
<ul> <li>1.2.1 Audio-only and Video-only (Prerecorded) (Level A)</li> <li>Also applies to:</li> <li>Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Not applicable	
<ul> <li>1.2.2 Captions (Prerecorded) (Level A)</li> <li>Also applies to:</li> <li>Revised Section 508 <ul> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul> </li> </ul>	Software: Not applicable	
<ul> <li>1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)</li> <li>Also applies to:</li> <li>Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Not applicable	
<ul> <li>1.3.1 Info and Relationships (Level A)</li> <li>Also applies to:</li> <li>Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> </ul>	Software: Not applicable	

Criteria	Conformance Level	Remarks and Explanations
602.3 (Support Docs)		
<ul> <li>1.3.2 Meaningful Sequence (Level A)</li> <li>Also applies to:</li> <li>Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Not applicable	
<ul> <li>1.3.3 Sensory Characteristics (Level A) Also applies to: Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Not applicable	
<ul> <li>1.4.1 Use of Color (Level A)</li> <li>Also applies to:</li> <li>Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Partially supports	Not all information conveyed by color differences (for example, a highlighted column) is available in text.
<ul> <li>1.4.2 Audio Control (Level A)</li> <li>Also applies to:</li> <li>Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Not applicable	
<ul> <li>2.1.1 Keyboard (Level A) Also applies to: Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Supports	
2.1.2 No Keyboard Trap (Level A)	Software: Supports	

Criteria	Conformance Level	Remarks and Explanations
Also applies to:		
Revised Section 508		
• 501 (Web)(Software)		
• 504.2 (Authoring Tool)		
• 602.3 (Support Docs)		
2.2.1 Timing Adjustable (Level A)		
Also applies to:		
Revised Section 508	Software: Not applicable	
• 501 (Web)(Software)		
• 504.2 (Authoring Tool)		
• 602.3 (Support Docs)		
2.2.2 Pause, Stop, Hide (Level A)		
Also applies to:		
Revised Section 508	Software: Not applicable	
• 501 (Web)(Software)		
• 504.2 (Authoring Tool)		
• 602.3 (Support Docs)		
2.3.1 Three Flashes or Below Threshold (Level A)		
Also applies to:		
Revised Section 508	Software: Not applicable	
<ul> <li>501 (Web)(Software)</li> </ul>		
• 504.2 (Authoring Tool)		
602.3 (Support Docs)		
2.4.1 Bypass Blocks (Level A)		
Also applies to:		
Revised Section 508	Software: Not applicable	
<ul> <li>501 (Web)(Software) – Does not apply to non-web software</li> </ul>		
• 504.2 (Authoring Tool)		
<ul> <li>602.3 (Support Docs) – Does not apply to non-web docs</li> </ul>		
2.4.2 Page Titled (Level A)		
Also applies to:	Software: Not applicable	
Revised Section 508		
• 501 (Web)(Software)		

Criteria	Conformance Level	Remarks and Explanations
• 504.2 (Authoring Tool)		
• 602.3 (Support Docs)		
2.4.3 Focus Order (Level A)		
Also applies to:		
Revised Section 508	Software: Not applicable	
<ul> <li>501 (Web)(Software)</li> </ul>		
<ul> <li>504.2 (Authoring Tool)</li> </ul>		
602.3 (Support Docs)		
2.4.4 Link Purpose (In Context) (Level A)		
Also applies to:		
Revised Section 508	Software: Not applicable	
<ul> <li>501 (Web)(Software)</li> </ul>		
<ul> <li>504.2 (Authoring Tool)</li> </ul>		
602.3 (Support Docs)		
3.1.1 Language of Page (Level A)		
Also applies to:		
Revised Section 508	Software: Supports	
<ul> <li>501 (Web)(Software)</li> </ul>		
<ul> <li>504.2 (Authoring Tool)</li> </ul>		
602.3 (Support Docs)		
3.2.1 On Focus (Level A)		
Also applies to:		
Revised Section 508	Software: Supports	
<ul> <li>501 (Web)(Software)</li> </ul>		
• 504.2 (Authoring Tool)		
602.3 (Support Docs)		
3.2.2 On Input (Level A)		
Also applies to:		
Revised Section 508	Software: Supports	
• 501 (Web)(Software)		
• 504.2 (Authoring Tool)		
602.3 (Support Docs)		

Criteria	Conformance Level	Remarks and Explanations
<ul> <li>3.3.1 Error Identification (Level A) Also applies to: Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Partially supports	Some errors are identified in temporarily visible pop up text boxes but others are indicated by fonts changes.
<ul> <li>3.3.2 Labels or Instructions (Level A)</li> <li>Also applies to: Revised Section 508 <ul> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul> </li> </ul>	Software: Partially supports	User's input numbers into fields that have labels or select items from drop-down menus that have text descriptors. However, when using screen reader technology if there are multiple columns it is extremely hard to follow and is not really useable.
<ul> <li>4.1.1 Parsing (Level A)</li> <li>Also applies to:</li> <li>Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Not applicable	
<ul> <li>4.1.2 Name, Role, Value (Level A)</li> <li>Also applies to: Revised Section 508</li> <li>501 (Web)(Software)</li> <li>504.2 (Authoring Tool)</li> <li>602.3 (Support Docs)</li> </ul>	Software: Supports	

### Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA) Also applies to:	Software: Not applicable	

Criteria	Conformance Level	Remarks and Explanations
Revised Section 508		
• 501 (Web)(Software)		
• 504.2 (Authoring Tool)		
• 602.3 (Support Docs)		
1.2.5 Audio Description (Prerecorded) (Level AA)		
Also applies to:		
Revised Section 508	Software: Not applicable	
• 501 (Web)(Software)		
• 504.2 (Authoring Tool)		
• 602.3 (Support Docs)		
1.4.3 Contrast (Minimum) (Level AA)		
Also applies to:		
Revised Section 508	Software: Partially supports	Text within tables passes minimum contrast ratio, but
<ul> <li>501 (Web)(Software)</li> </ul>	Software. Partially supports	text in blue window headers does not pass.
• 504.2 (Authoring Tool)		
602.3 (Support Docs)		
1.4.4 Resize text (Level AA)		
Also applies to:		
Revised Section 508	Software: Does not support	Most text size cannot be altered.
<ul> <li>501 (Web)(Software)</li> </ul>		Most text size cannot be altered.
• 504.2 (Authoring Tool)		
602.3 (Support Docs)		
1.4.5 Images of Text (Level AA)		
Also applies to:		
Revised Section 508	Software: Not applicable	
<ul> <li>501 (Web)(Software)</li> </ul>		
• 504.2 (Authoring Tool)		
602.3 (Support Docs)		
2.4.5 Multiple Ways (Level AA)		
Also applies to:	Software: Not applicable	
Revised Section 508		
<ul> <li>501 (Web)(Software) – Does not apply to non-web software</li> </ul>		
• 504.2 (Authoring Tool)		

Criteria	Conformance Level	Remarks and Explanations
602.3 (Support Docs) – Does not apply to non-web docs		
2.4.6 Headings and Labels (Level AA)		
Also applies to:		
Revised Section 508	Software: Not applicable	
• 501 (Web)(Software)		
• 504.2 (Authoring Tool)		
• 602.3 (Support Docs)		
2.4.7 Focus Visible (Level AA)		
Also applies to:		
Revised Section 508	Software: Supports	
• 501 (Web)(Software)		
• 504.2 (Authoring Tool)		
• 602.3 (Support Docs)		
3.1.2 Language of Parts (Level AA)		
Also applies to:		
Revised Section 508	Software: Supports	
<ul> <li>501 (Web)(Software)</li> </ul>		
• 504.2 (Authoring Tool)		
602.3 (Support Docs)		
3.2.3 Consistent Navigation (Level AA)		
Also applies to:		
Revised Section 508	Software: Not applicable	
<ul> <li>501 (Web)(Software) – Does not apply to non-web software</li> </ul>		
• 504.2 (Authoring Tool)		
<ul> <li>602.3 (Support Docs) – Does not apply to non-web docs</li> </ul>		
3.2.4 Consistent Identification (Level AA)		
Also applies to:		
Revised Section 508	Software: Not applicable	
<ul> <li>501 (Web)(Software) – Does not apply to non-web software</li> </ul>		
• 504.2 (Authoring Tool)		
<ul> <li>602.3 (Support Docs) – Does not apply to non-web docs</li> </ul>		
3.3.3 Error Suggestion (Level AA)	Software: Partially supports	Many errors offer suggestions but not all. Some only

Criteria	Conformance Level	Remarks and Explanations
Also applies to:		say "invalid input"
Revised Section 508		
• 501 (Web)(Software)		
• 504.2 (Authoring Tool)		
• 602.3 (Support Docs)		
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)		
Also applies to:		
Revised Section 508	Software: Not applicable	
• 501 (Web)(Software)		
• 504.2 (Authoring Tool)		
• 602.3 (Support Docs)		

#### **Revised Section 508 Report**

Notes:

#### Chapter 5: <u>Software</u>

Notes:

Criteria	Conformance Level	Remarks and Explanations
501.1 Scope – Incorporation of WCAG 2.0 AA	See <u>WCAG 2.0</u> section	See information in WCAG 2.0 section
502 Interoperability with Assistive Technology		
502.2.1 User Control of Accessibility Features	Not applicable	
502.2.2 No Disruption of Accessibility Features	Not applicable	
502.3 Accessibility Services		
502.3.1 Object Information	Supports	
502.3.2 Modification of Object Information	Not applicable	
502.3.3 Row, Column, and Headers	Supports	
502.3.4 Values	Supports	
502.3.5 Modification of Values	Supports	

Criteria	Conformance Level	Remarks and Explanations
502.3.6 Label Relationships	Supports	
502.3.7 Hierarchical Relationships	Supports	
502.3.8 Text	Partially supports	Most text (but not all) is accessible
502.3.9 Modification of Text	Supports	
502.3.10 List of Actions	Not applicable	
502.3.11 Actions on Objects	Supports	
502.3.12 Focus Cursor	Supports	
502.3.13 Modification of Focus Cursor	Not applicable	
502.3.14 Event Notification	Supports	
502.4 Platform Accessibility Features	Not applicable	
503 Applications		
503.2 User Preferences	Does not support	Text font and size cannot be altered
503.3 Alternative User Interfaces	Does not support	No alternative user interfaces are supplied.
503.4 User Controls for Captions and Audio Description		
503.4.1 Caption Controls	Not applicable	
503.4.2 Audio Description Controls	Not applicable	
504 Authoring Tools		
504.2 Content Creation or Editing (if not authoring tool, enter "not applicable")	See <u>WCAG 2.0</u> section	See information in WCAG 2.0 section
504.2.1 Preservation of Information Provided for Accessibility in Format Conversion	Not applicable	
504.2.2 PDF Export	Not applicable	
504.3 Prompts	Not applicable	
504.4 Templates	Not applicable	

#### Chapter 6: <u>Support Documentation and Services</u>

Notes:

Criteria

Conformance Level

**Remarks and Explanations** 

Criteria	Conformance Level	Remarks and Explanations
601.1 Scope		
602 Support Documentation		
602.2 Accessibility and Compatibility Features	Does not support	Documentation does not list and explain how to use accessibility and compatibility features
602.3 Electronic Support Documentation	See <u>WCAG 2.0</u> section	See information in WCAG 2.0 section
602.4 Alternate Formats for Non-Electronic Support Documentation	Supports	
603 Support Services		
603.2 Information on Accessibility and Compatibility Features	Supports	
603.3 Accommodation of Communication Needs	Supports	

#### Legal Disclaimer (National Institute of Standards and Technology)

NIST uses its best efforts to deliver a high-quality copy of the Database and to verify that the data contained therein have been selected on the basis of sound scientific judgment. However, NIST makes no warranties to that effect, and NIST shall not be liable for any damage that may result from errors of omission in the Database.