

The texvc package*

Moritz Schubotz
moritz.schubotz@fiz-karlsruhe.de

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Abstract

This package provides all¹ LaTeX command available in MediaWiki. This includes several packages like amsmath, and adds some specific commands such as `\Reals`.

1 Provided Macros

1.1 Arrows

The first group of MediaWiki custom command (`other_delimiters2`) defines short hand notations for some arrows.

`\darr` Short hand notation for arrow \downarrow .

`\dArr` Short hand notation for arrow \Downarrow .

`\Darr` Short hand notation for arrow \Downarrow .

`\lang` Short hand notation for arrow \langle .

`\rang` Short hand notation for arrow \rangle .

`\uarr` Short hand notation for arrow \uparrow .

`\uArr` Short hand notation for arrow \Uparrow .

`\Uarr` Short hand notation for arrow \Uparrow .

1.2 Literals

The second group of MediaWiki custom commands (`other_litereals3`) defines short hand notations for some literals.

`\C` Short hand notation for literal \mathbb{C} . *This command is deprecated.*

`\H` Short hand notation for literal \mathbb{H} . *This command is deprecated.*

`\N` Short hand notation for literal \mathbb{N} .

`\Q` Short hand notation for literal \mathbb{Q} .

*This document corresponds to texvc v1.3, dated 2025/11/15.

¹The command `\or` is only available if custom code is copied into your \LaTeX -file. See page 10 for details.

`\R` Short hand notation for literal \mathbb{R} .
`\Z` Short hand notation for literal \mathbb{Z} .
`\alef` Short hand notation for literal \aleph .
`\alefsym` Short hand notation for literal \aleph .
`\Alpha` Short hand notation for literal A .
`\and` Short hand notation for literal \wedge . *This command is deprecated.*
`\ang` Short hand notation for literal \angle . *This command is deprecated.*
`\Beta` Short hand notation for literal B .
`\bull` Short hand notation for literal \bullet .
`\Chi` Short hand notation for literal X .
`\clubs` Short hand notation for literal \clubsuit .
`\cnms` Short hand notation for literal \mathbb{C} .
`\Complex` Short hand notation for literal \mathbb{C} .
`\Dagger` Short hand notation for literal \ddagger .
`\diamonds` Short hand notation for literal \diamond .
`\Doteq` Short hand notation for literal \doteq .
`\doublecap` Short hand notation for literal \mho .
`\doublecup` Short hand notation for literal Ψ .
`\empty` Short hand notation for literal \emptyset .
`\Epsilon` Short hand notation for literal E .
`\Eta` Short hand notation for literal H .
`\exist` Short hand notation for literal \exists .
`\ge` Short hand notation for literal \geq .
`\gggtr` Short hand notation for literal \gggtr .
`\hAar` Short hand notation for literal \Leftrightarrow .
`\harr` Short hand notation for literal \leftrightarrow .
`\Harr` Short hand notation for literal \Leftrightarrow .
`\hearts` Short hand notation for literal \heartsuit .
`\image` Short hand notation for literal \Im .
`\infin` Short hand notation for literal ∞ .
`\Iota` Short hand notation for literal I .
`\isin` Short hand notation for literal \in .
`\Kappa` Short hand notation for literal K .

`\larr` Short hand notation for literal \leftarrow .
`\Larr` Short hand notation for literal \Leftarrow .
`\lArr` Short hand notation for literal \Lleftarrow .
`\le` Short hand notation for literal \leq .
`\lrarr` Short hand notation for literal \leftrightarrow .
`\Lrarr` Short hand notation for literal \Leftrightarrow .
`\lrArr` Short hand notation for literal \Leftrightarrow .
`\Mu` Short hand notation for literal \mathbb{M} .
`\natnums` Short hand notation for literal \mathbb{N} .
`\ne` Short hand notation for literal \neq .
`\Nu` Short hand notation for literal \mathbb{N} .
`\O` Short hand notation for literal \emptyset .
`\omicron` Short hand notation for literal \omicron .
`\Omicron` Short hand notation for literal \mathcal{O} .
`\or` Short hand notation for literal \vee . *This command is deprecated.*
`\part` Short hand notation for literal ∂ . *This command is deprecated.*
`\plusmn` Short hand notation for literal \pm .
`\rarr` Short hand notation for literal \rightarrow .
`\Rarr` Short hand notation for literal \Rightarrow .
`\rArr` Short hand notation for literal \Rightarrow .
`\real` Short hand notation for literal \Re .
`\reals` Short hand notation for literal \mathbb{R} .
`\Reals` Short hand notation for literal \mathbb{R} .
`\restriction` Short hand notation for literal \upharpoonright .
`\Rho` Short hand notation for literal \mathbb{P} .
`\sdot` Short hand notation for literal \cdot .
`\sect` Short hand notation for literal \S .
`\spades` Short hand notation for literal \spadesuit .
`\sub` Short hand notation for literal \subset .
`\sube` Short hand notation for literal \subseteq .
`\supe` Short hand notation for literal \supseteq .
`\Tau` Short hand notation for literal \mathbb{T} .
`\thetasym` Short hand notation for literal ϑ .

`\varcoppa` Short hand notation for literal \wp .

`\weierp` Short hand notation for literal \wp .

`\Zeta` Short hand notation for literal Z .

2 Deprecations

According to the decision of *Wikimedia Community User Group Math*² the following macros have been deprecated³:

1. `$`
2. `%`
3. `\and`
4. `\or`
5. `\part`
6. `\ang`
7. `\C`
8. `\H`
9. `\bold`
10. `\Bbb`

The commands 1,2,4,9,10 have never been part of this package, but were available from within Wikipedia.

²<https://meta.wikimedia.org/w/index.php?oldid=19705444>

³See <https://phabricator.wikimedia.org/T197842> for the discussion.

3 Dependencies

MediaWiki uses LaTeX macros from the following packages in addition to the standard LaTeX packages:

- amsmath
- amsfons
- amssymb
- color
- babel
- teubner
- eurosym
- cancel
- bbold
- mhchem
- stix
- arcs

This LaTeX package requires those packages automatically, so that all commands that are usable on MediaWiki are also usable in LaTeX. For a list of the provided commands, see Section A. In addition, the MediaWiki help page for math (see <https://en.wikipedia.org/wiki/WP:Math>) provides additional details on their usage.

4 Implementation

`\darr` This macro does the following replacement.

```
1 \newcommand{\darr}{\downarrow}
```

`\dArr` This macro does the following replacement.

```
2 \newcommand{\dArr}{\Downarrow}
```

`\Darr` This macro does the following replacement.

```
3 \newcommand{\Darr}{\Downarrow}
```

`\lang` This macro does the following replacement.

```
4 \newcommand{\lang}{\langle}
```

`\rang` This macro does the following replacement.

```
5 \newcommand{\rang}{\rangle}
```

`\uarr` This macro does the following replacement.

```
6 \newcommand{\uarr}{\uparrow}
```

`\uArr` This macro does the following replacement.

```
7 \newcommand{\uArr}{\Uparrow}
```

`\Uarr` This macro does the following replacement.

```
8 \newcommand{\Uarr}{\Uparrow}
```

`\C` This macro does the following replacement.

```
9 %\newcommand{\C}{\mathbb{C}}
```

`\H` This macro does the following replacement.

```
10 \renewcommand{\H}{\mathbb{H}}
```

`\N` This macro does the following replacement.

```
11 \newcommand{\N}{\mathbb{N}}
```

`\Q` This macro does the following replacement.

```
12 \newcommand{\Q}{\mathbb{Q}}
```

`\R` This macro does the following replacement.

```
13 \newcommand{\R}{\mathbb{R}}
```

`\Z` This macro does the following replacement.

```
14 \newcommand{\Z}{\mathbb{Z}}
```

`\alef` This macro does the following replacement.

```
15 \newcommand{\alef}{\aleph}
```

`\alefsym` This macro does the following replacement.

```
16 \newcommand{\alefsym}{\aleph}
```

`\Alpha` This macro does the following replacement.

```
17 \newcommand{\Alpha}{\mathrm{A}}
```

`\and` This macro does the following replacement.

```
18 \renewcommand{\and}{\land}
```

`\ang` This macro does the following replacement.

```
19 \newcommand{\ang}{\angle}
```

`\Beta` This macro does the following replacement.

```
20 \newcommand{\Beta}{\mathrm{B}}
```

`\bull` This macro does the following replacement.

```
21 \newcommand{\bull}{\bullet}
```

`\Chi` This macro does the following replacement.

```
22 \newcommand{\Chi}{\mathrm{X}}
```

`\clubs` This macro does the following replacement.

```
23 \newcommand{\clubs}{\clubsuit}
```

`\cnums` This macro does the following replacement.

```
24 \newcommand{\cnums}{\mathbb{C}}
```

`\Complex` This macro does the following replacement.

```
25 \newcommand{\Complex}{\mathbb{C}}
```

`\Dagger` This macro does the following replacement.

```
26 \newcommand{\Dagger}{\ddagger}
```

`\diamonds` This macro does the following replacement.

```
27 \newcommand{\diamonds}{\diamondsuit}
```

`\Doteq` This macro does the following replacement.

```
28 \renewcommand{\Doteq}{\doteqdot}
```

`\doublecap` This macro does the following replacement.

```
29 \renewcommand{\doublecap}{\Cap}
```

`\doublecup` This macro does the following replacement.

```
30 \renewcommand{\doublecup}{\Cup}
```

`\empty` This macro does the following replacement.

```
31 \renewcommand{\empty}{\emptyset}
```

`\Epsilon` This macro does the following replacement.

```
32 \newcommand{\Epsilon}{\mathrm{E}}
```

`\Eta` This macro does the following replacement.

```
33 \newcommand{\Eta}{\mathrm{H}}
```

`\exist` This macro does the following replacement.

```
34 \newcommand{\exist}{\exists}
```

`\ge` This macro does the following replacement.

```
35 \renewcommand{\ge}{\geq}
```

`\gggtr` This macro does the following replacement.

```
36 \renewcommand{\gggtr}{\ggg}
```

`\hAar` This macro does the following replacement.

```
37 \newcommand{\hAar}{\Leftrightarrow}
```

`\harr` This macro does the following replacement.

```
38 \newcommand{\harr}{\leftrightharpoonup}
```

`\Harr` This macro does the following replacement.

```
39 \newcommand{\Harr}{\Leftrightarrow}
```


`\hearts` This macro does the following replacement.

```
40 \newcommand{\hearts}{\heartsuit}
```

`\image` This macro does the following replacement.

```
41 \newcommand{\image}{\Im}
```

`\infin` This macro does the following replacement.

```
42 \newcommand{\infin}{\infty}
```

`\Iota` This macro does the following replacement.

```
43 \newcommand{\Iota}{\mathrm{I}}
```

`\isin` This macro does the following replacement.

```
44 \newcommand{\isin}{\in}
```

`\Kappa` This macro does the following replacement.

```
45 \newcommand{\Kappa}{\mathrm{K}}
```

`\larr` This macro does the following replacement.

```
46 \newcommand{\larr}{\leftarrow}
```

`\Larr` This macro does the following replacement.

```
47 \newcommand{\Larr}{\Leftarrow}
```

`\lArr` This macro does the following replacement.

```
48 \newcommand{\lArr}{\Leftarrow}
```

`\le` This macro does the following replacement.

```
49 \renewcommand{\le}{\leq}
```

`\lrarr` This macro does the following replacement.

```
50 \newcommand{\lrarr}{\leftrightarrow}
```

`\Lrarr` This macro does the following replacement.

```
51 \newcommand{\Lrarr}{\Leftrightarrow}
```

`\lrArr` This macro does the following replacement.

```
52 \newcommand{\lrArr}{\Leftrightarrow}
```

`\Mu` This macro does the following replacement.

```
53 \newcommand{\Mu}{\mathrm{M}}
```

`\natnums` This macro does the following replacement.

```
54 \newcommand{\natnums}{\mathbb{N}}
```

`\ne` This macro does the following replacement.

```
55 \renewcommand{\ne}{\neq}
```

`\Nu` This macro does the following replacement.

```
56 \newcommand{\Nu}{\mathrm{N}}
```

`\O` This macro does the following replacement.

```
57 \renewcommand{\O}{\emptyset}
```

`\omicron` This macro does the following replacement.

```
58 \newcommand{\omicron}{\mathrm{o}}
```

`\Omicron` This macro does the following replacement.

```
59 \newcommand{\Omicron}{\mathrm{O}}
```

`\or` This is a problematic macro, since it redefines the plain \TeX macro `\or`. For instance, the `\thanks` command uses a custom function to determine the footnotesymbol, which relies on the availability of the `\or` command in math mode. Thus, the macro has to be defined after `\maketitle` was executed. However, there might be more commands that use `\or` used in mathmode. Thus we don't overwrite `\or` in this package. To enable the overwriting copy the code below to an appropriate position in your \LaTeX -file. However, it might be easier to manually replace `\or` with `\lor` which is all what the macro above does.

```
60 %\let\oldor\or
61 %\def\or{\ifmmode\lor\else\expandafter\oldor\fi}
```

`\part` This macro does the following replacement.

```
62 \renewcommand{\part}{\partial}
```

`\plusmn` This macro does the following replacement.

```
63 \newcommand{\plusmn}{\pm}
```

`\rarr` This macro does the following replacement.

```
64 \newcommand{\rarr}{\rightarrow}
```

`\Rarr` This macro does the following replacement.

```
65 \newcommand{\Rarr}{\rightarrow}
```

`\rArr` This macro does the following replacement.

```
66 \newcommand{\rArr}{\rightarrow}
```

`\real` This macro does the following replacement.

```
67 \newcommand{\real}{\Re}
```

`\reals` This macro does the following replacement.

```
68 \newcommand{\reals}{\mathbb{R}}
```

`\Reals` This macro does the following replacement.

```
69 \newcommand{\Reals}{\mathbb{R}}
```

`\restriction` This macro does the following replacement.

```
70 \renewcommand{\restriction}{\upharpoonright}
```

`\Rho` This macro does the following replacement.

```
71 \newcommand{\Rho}{\mathrm{P}}
```

`\sdot` This macro does the following replacement.

```
72 \newcommand{\sdot}{\cdot}
```

`\sect` This macro does the following replacement.

```
73 \newcommand{\sect}{\S}
```

`\spades` This macro does the following replacement.

```
74 \newcommand{\spades}{\spadesuit}
```

`\sub` This macro does the following replacement.

```
75 \newcommand{\sub}{\subset}
```

`\sube` This macro does the following replacement.

```
76 \newcommand{\sube}{\subseteq}
```

`\supe` This macro does the following replacement.

```
77 \newcommand{\supe}{\supseteq}
```

`\Tau` This macro does the following replacement.

```
78 \newcommand{\Tau}{\mathrm{T}}
```

`\thetasy` This macro does the following replacement.

```
79 \newcommand{\thetasy}{\vartheta}
```

`\varcoppa` This macro does the following replacement.

```
80 \newcommand{\varcoppa}{\mbox{\coppa}}
```

`\weierp` This macro does the following replacement.

```
81 \newcommand{\weierp}{\wp}
```

`\Zeta` This macro does the following replacement.

```
82 \newcommand{\Zeta}{\mathrm{Z}}
```

Acknowledgements

This LaTeX package was co-funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) – Project number 460135501. It is actively maintained by the *Wikimedia Community User Group Math*⁴ and the MaRDI project⁵ which uses MediaWiki as the portal for mathematical research data.

Change History

v1.0		v1.3
General: Initial version	1	General: Expand documentation and ensure all necessary packages are included to render the commands correctly.
v1.1		
General: Fix bug with varcoppa, document usage of or	1	1
v1.2		
General: Document deprecations	1	

Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols	A	<code>\aleph</code> 15, 16
	<code>\alef</code> 2, <u>15</u>	<code>\Alpha</code> 2, <u>17</u>
<code>\@oldor</code> 60, 61	<code>\alefsym</code> 2, <u>16</u>	<code>\and</code> 2, <u>18</u>

⁴https://meta.wikimedia.org/wiki/Wikimedia_Community_User_Group_Math

⁵<https://portal.mardi4nfdi.de/>

\backslash ang	2, <u>19</u>				\backslash Nu	3, <u>56</u>
\backslash angle	19					
		B	H		O	
\backslash Beta	2, <u>20</u>		\backslash H	1, <u>10</u>	\backslash O	3, <u>57</u>
\backslash bull	2, <u>21</u>		\backslash hAar	2, <u>37</u>	\backslash Omicron	3, <u>59</u>
\backslash bullet	21		\backslash Harr	2, <u>39</u>	\backslash omicron	3, <u>58</u>
			\backslash harr	2, <u>38</u>	\backslash or	3, <u>60</u>
			\backslash hearts	2, <u>40</u>		
			\backslash heartsuit	40		
		C	I		P	
\backslash C	1, <u>9</u>		\backslash ifmmode	61	\backslash part	3, <u>62</u>
\backslash Cap	29		\backslash Im	41	\backslash partial	62
\backslash cdot	72		\backslash image	2, <u>41</u>	\backslash plusmn	3, <u>63</u>
\backslash Chi	2, <u>22</u>		\backslash in	44	\backslash pm	63
\backslash clubs	2, <u>23</u>		\backslash infin	2, <u>42</u>		
\backslash clubsuit	23		\backslash infty	42	Q	
\backslash cnums	2, <u>24</u>		\backslash Iota	2, <u>43</u>	\backslash Q	1, <u>12</u>
\backslash Complex	2, <u>25</u>		\backslash isin	2, <u>44</u>		
\backslash coppa	80				R	
\backslash Cup	30		K		\backslash R	2, <u>13</u>
			\backslash Kappa	2, <u>45</u>	\backslash rang	1, <u>5</u>
		D			\backslash rangle	5
\backslash Dagger	2, <u>26</u>		L		\backslash Rarr	3, <u>65</u>
\backslash Darr	1, <u>3</u>		\backslash land	18	\backslash rArr	3, <u>66</u>
\backslash dArr	1, <u>2</u>		\backslash lang	1, <u>4</u>	\backslash rarr	3, <u>64</u>
\backslash darr	1, <u>1</u>		\backslash langle	4	\backslash Re	67
\backslash ddagger	26		\backslash Larr	3, <u>47</u>	\backslash real	3, <u>67</u>
\backslash def	61		\backslash lArr	3, <u>48</u>	\backslash Reals	3, <u>69</u>
\backslash diamonds	2, <u>27</u>		\backslash larr	3, <u>46</u>	\backslash reals	3, <u>68</u>
\backslash diamondsuit	27		\backslash le	3, <u>49</u>	\backslash renewcommand	10, 18,
\backslash Doteq	2, <u>28</u>		\backslash Leftarrow	47, 48		28, 29, 30, 31, 35,
\backslash doteqdot	28		\backslash leftarrow	46		36, 49, 55, 57, 62, 70
\backslash doublecap	2, <u>29</u>		\backslash Leftrightarrow	37, 39, 51, 52	\backslash restriction	3, <u>70</u>
\backslash doublecup	2, <u>30</u>		\backslash leftrightharpoon	38, 50	\backslash Rho	3, <u>71</u>
\backslash Downarrow	2, <u>3</u>		\backslash leq	49	\backslash Rightarrow	65, 66
\backslash downarrow	1		\backslash let	60	\backslash rightarrow	64
		E	\backslash lor	61		
\backslash else	61		\backslash Lrarr	3, <u>51</u>	S	
\backslash empty	2, <u>31</u>		\backslash lrArr	3, <u>52</u>	\backslash S	73
\backslash emptyset	31, <u>57</u>		\backslash lrarr	3, <u>50</u>	\backslash sdot	3, <u>72</u>
\backslash Epsilon	2, <u>32</u>				\backslash sect	3, <u>73</u>
\backslash Eta	2, <u>33</u>		M		\backslash spades	3, <u>74</u>
\backslash exist	2, <u>34</u>		\backslash mathbb	9, 10, 11, 12, 13,	\backslash spadesuit	74
\backslash exists	34			14, 24, 25, 54, 68, 69	\backslash sub	3, <u>75</u>
\backslash expandafter	61		\backslash mathrm	17, 20, 22,	\backslash sube	3, <u>76</u>
				32, 33, 43, 45, 53,	\backslash subset	75
				56, 58, 59, 71, 78, 82	\backslash subseteq	76
F			\backslash mbox	80	\backslash supe	3, <u>77</u>
\backslash fi	61		\backslash Mu	3, <u>53</u>	\backslash supseteq	77
		G	N		T	
\backslash ge	2, <u>35</u>		\backslash N	1, <u>11</u>	\backslash Tau	3, <u>78</u>
\backslash geq	35		\backslash natnums	3, <u>54</u>	\backslash thetasym	3, <u>79</u>
\backslash ggg	36		\backslash ne	3, <u>55</u>	U	
\backslash gggtr	2, <u>36</u>		\backslash neq	55	\backslash Uarr	1, <u>8</u>

<code>\uArr</code>	<u>1</u> , <u>7</u>	V	<code>\wp</code>	81	
<code>\uarr</code>	<u>1</u> , <u>6</u>	<code>\varcoppa</code>	4, <u>80</u>		
<code>\Uparrow</code>	7, 8	<code>\vartheta</code>	79	Z	
<code>\uparrow</code>	6	W	<code>\Z</code>	2, <u>14</u>	
<code>\upharpoonright</code>	70	<code>\weierp</code>	4, 81	<code>\Zeta</code>	4, <u>82</u>

A List of all commands supported

Section A lists all commands allowed by MediaWiki. This includes the commands provided by this package but also selected commands provided by other packages (cf. Section 3).

It was generated automatically using a script that processes a JSON file that is part of the MediaWiki Math extension.

A.1 Group big_literals

\backslash Big is rendered as (

\backslash Bigg is rendered as (

\backslash Biggl is rendered as (

\backslash Biggr is rendered as (

\backslash Bigl is rendered as (

\backslash Bigr is rendered as (

\backslash big is rendered as (

\backslash bigg is rendered as (

\backslash biggl is rendered as (

\backslash biggr is rendered as (

\backslash bigl is rendered as (

\backslash bigr is rendered as (

A.2 Group box_functions

\backslash hbox is rendered as x

`\mbox` is rendered as x

`\text` is rendered as x

`\vbox` is rendered as x

A.3 Group `color_function`

`\color` is rendered as *red*

`\pagecolor` is not rendered.

A.4 Group `declh_function`

`\bf` is rendered as

`\cal` is rendered as *cal*

`\it` is rendered as

`\rm` is rendered as

A.5 Group `definecolor_function`

`\definecolor` is rendered as

A.6 Group `fun_ar1`

`\acute` is rendered as \acute{x}

`\bar` is rendered as \bar{x}

`\bcancel` is rendered as \cancel{x}

`\bmod` is rendered as $\bmod x$

`\boldsymbol` is rendered as \boldsymbol{x}

`\breve` is rendered as \breve{x}

`\cancel` is rendered as \cancel{x}

`\check` is rendered as \check{x}

`\ddot` is rendered as \ddot{x}

`\dot` is rendered as \dot{x}

`\emph` is rendered as *x*

`\grave` is rendered as \grave{x}

`\hat` is rendered as \hat{x}

`\hphantom` is rendered as

`\mathcal` is rendered as \mathcal{x}

`\mathclose` is rendered as x

`\mathfrak` is rendered as \mathfrak{x}

$\backslash\mathrm{it}$ is rendered as x
 $\backslash\mathrm{open}$ is rendered as x
 $\backslash\mathrm{hord}$ is rendered as x
 $\backslash\mathrm{punct}$ is rendered as x
 $\backslash\mathrm{sf}$ is rendered as x
 $\backslash\mathrm{tt}$ is rendered as x
 $\backslash\mathrm{overleftarrow{}}$ is rendered as \overleftarrow{x}
 $\backslash\mathrm{overleftrightharpoonrightarrow}$ is rendered as $\overleftrightharpoonrightarrow x$
 $\backslash\mathrm{overline{}}$ is rendered as \overline{x}
 $\backslash\mathrm{overrightarrow{}}$ is rendered as \overrightarrow{x}
 $\backslash\mathrm{phantom}$ is rendered as
 $\backslash\mathrm{pmod}$ is rendered as $x \pmod{x}$
 $\backslash\mathrm{sqrt}$ is rendered as \sqrt{x}
 $\backslash\mathrm{textbf}$ is rendered as \mathbf{x}
 $\backslash\mathrm{textit}$ is rendered as x
 $\backslash\mathrm{textrm}$ is rendered as x
 $\backslash\mathrm{textsf}$ is rendered as x
 $\backslash\mathrm{texttt}$ is rendered as x
 $\backslash\mathrm{tilde}$ is rendered as \tilde{x}
 $\backslash\mathrm{underline}$ is rendered as \underline{x}
 $\backslash\mathrm{vec}$ is rendered as \vec{x}
 $\backslash\mathrm{vphantom}$ is rendered as $\mathrm{vphantom{x}}$
 $\backslash\mathrm{widehat{}}$ is rendered as \widehat{x}
 $\backslash\mathrm{widetilde{}}$ is rendered as \widetilde{x}
 $\backslash\mathrm{xcancel}$ is rendered as \cancel{x}

A.7 Group `fun_ar1nb`

$\backslash\mathrm{hbb}$ is rendered as \mathbb{x}
 $\backslash\mathrm{hbf}$ is rendered as \mathbf{x}
 $\backslash\mathrm{hbin}$ is rendered as x
 $\backslash\mathrm{hop}$ is rendered as x
 $\backslash\mathrm{hrel}$ is rendered as x
 $\backslash\mathrm{hrm}$ is rendered as x
 $\backslash\mathrm{operatorname{}}$ is rendered as x

`\overarc` is rendered as $5.0\text{pt}\widehat{x}$

`\overbrace` is rendered as \overbrace{x}

`\underbrace` is rendered as \underbrace{x}

`\xleftarrow` is rendered as \xleftarrow{x}

`\xrightarrow` is rendered as \xrightarrow{x}

A.8 Group `fun_ar1opt`

`\sqrt` is rendered as \sqrt{x}

`\xleftarrow` is rendered as \xleftarrow{x}

`\xrightarrow` is rendered as \xrightarrow{x}

A.9 Group `fun_ar2`

`\binom` applied on xx is rendered as $\binom{x}{x}$

`\cancelto` applied on xx is rendered as $x\cancel{\rightarrow}^x$

`\cfrac` applied on xx is rendered as $\frac{x}{x}$

`\dbinom` applied on xx is rendered as $\dbinom{x}{x}$

`\dfrac` applied on xx is rendered as $\dfrac{x}{x}$

`\frac` applied on xx is rendered as $\frac{x}{x}$

`\overset` applied on xx is rendered as $\overset{x}{x}$

`\stackrel` applied on xx is rendered as $\stackrel{x}{x}$

`\tbinom` applied on xx is rendered as $\tbinom{x}{x}$

`\tfrac` applied on xx is rendered as $\tfrac{x}{x}$

`\underset` applied on xx is rendered as $\underset{x}{x}$

A.10 Group `fun_ar2nb`

`\sideset` applied on \sum_{13}^{24} is rendered as \sum_{13}^{24}

A.11 Group `fun_infix`

`\atop` applied on x, y is rendered as $\overset{x}{y}$

`\choose` applied on x, y is rendered as $\binom{x}{y}$

`\over` applied on x, y is rendered as $\frac{x}{y}$

A.12 Group `fun_mhchem`

`\ce` is rendered as x

A.13 Group `hline_function`

`\hline` applied in a table is rendered as $\underline{x_{11} \quad x_{12}}$

A.14 Group `latex_function_names`

`\Pr` is rendered as \Pr

`\arccos` is rendered as \arccos

`\arcsin` is rendered as \arcsin

`\arctan` is rendered as \arctan

`\arg` is rendered as \arg

`\cos` is rendered as \cos

`\cosh` is rendered as \cosh

`\cot` is rendered as \cot

`\coth` is rendered as \coth

`\csc` is rendered as \csc

`\deg` is rendered as \deg

`\det` is rendered as \det

`\dim` is rendered as \dim

`\exp` is rendered as \exp

`\gcd` is rendered as \gcd

`\hom` is rendered as \hom

`\inf` is rendered as \inf

`\ker` is rendered as \ker

`\lg` is rendered as \lg

`\lim` is rendered as \lim

`\liminf` is rendered as \liminf

`\limsup` is rendered as \limsup

`\ln` is rendered as \ln

`\log` is rendered as \log

`\max` is rendered as \max

`\min` is rendered as \min

`\sec` is rendered as \sec

`\sin` is rendered as \sin

`\sinh` is rendered as \sinh

`\sup` is rendered as \sup

`\tan` is rendered as \tan

`\tanh` is rendered as \tanh

A.15 Group `left_function`

`\left` is rendered as $($

A.16 Group `mediawiki_function_names`

`\arccot` is rendered as $\operatorname{arccot} y$

`\arccsc` is rendered as $\operatorname{arccsc} y$

`\arcsec` is rendered as $\operatorname{arcsec} y$

`\sen` is rendered as $\operatorname{sen} y$

`\sgn` is rendered as $\operatorname{sgn} y$

A.17 Group `mhchem_bond`

`\bond` is rendered as --

A.18 Group `mhchem_macro_1p`

`\ce` is rendered as x

`\mathbf` is rendered as \mathbf{x}

A.19 Group `mhchem_macro_2p`

`\frac` applied on xx is rendered as $\frac{x}{x}$

`\overset` applied on xx is rendered as $\overset{x}{x}$

`\underset` applied on xx is rendered as $\underset{x}{x}$

A.20 Group `mhchem_macro_2pc`

`\color` is rendered as red

A.21 Group `mhchem_macro_2pu`

`\underbrace` is rendered as \underbrace{x}

A.22 Group mhchem_single_macro

`\Alpha` is rendered as A

`\Beta` is rendered as B

`\Chi` is rendered as X

`\Delta` is rendered as Δ

`\Epsilon` is rendered as E

`\Eta` is rendered as H

`\Gamma` is rendered as Γ

`\Iota` is rendered as I

`\Kappa` is rendered as K

`\Lambda` is rendered as Λ

`\Mu` is rendered as M

`\Nu` is rendered as N

`\Omega` is rendered as Ω

`\Omicron` is rendered as O

`\Phi` is rendered as Φ

`\Pi` is rendered as Π

`\Psi` is rendered as Ψ

`\Rho` is rendered as P

`\Sigma` is rendered as Σ

`\Tau` is rendered as T

`\Theta` is rendered as Θ

`\Upsilon` is rendered as Υ

`\Zeta` is rendered as Z

`\alpha` is rendered as α

`\approx` is rendered as \approx

`\beta` is rendered as β

`\chi` is rendered as χ

`\circ` is rendered as \circ

`\delta` is rendered as δ

`\epsilon` is rendered as ϵ

`\eta` is rendered as η

`\gamma` is rendered as γ

\backslash iota is rendered as ι
 \backslash kappa is rendered as κ
 \backslash lambda is rendered as λ
 \backslash mu is rendered as μ
 \backslash nu is rendered as ν
 \backslash omega is rendered as ω
 \backslash omicron is rendered as \omicron
 \backslash phi is rendered as φ
 \backslash pi is rendered as π
 \backslash pm is rendered as \pm
 \backslash psi is rendered as ψ
 \backslash rho is rendered as ρ
 \backslash sigma is rendered as σ
 \backslash tau is rendered as τ
 \backslash theta is rendered as ϑ
 \backslash upsilon is rendered as υ
 \backslash varepsilon is rendered as ϵ
 \backslash varkappa is rendered as \varkappa
 \backslash varphi is rendered as φ
 \backslash varpi is rendered as ϖ
 \backslash varrho is rendered as ϱ
 \backslash varsigma is rendered as ς
 \backslash vartheta is rendered as ϑ
 \backslash zeta is rendered as ζ

A.23 Group nullary_macro

\backslash And is rendered as \wp
 \backslash Bbbk is rendered as \mathbb{k}
 \backslash Box is rendered as \square
 \backslash Bumpeq is rendered as \approx
 \backslash Cap is rendered as \mathfrak{M}
 \backslash Cup is rendered as \mathfrak{W}
 \backslash Delta is rendered as Δ
 \backslash Diamond is rendered as \diamond

$\backslash\text{Finv}$ is rendered as \dashv
 $\backslash\text{Game}$ is rendered as \oslash
 $\backslash\text{Gamma}$ is rendered as Γ
 $\backslash\text{Im}$ is rendered as \Im
 $\backslash\text{Lambda}$ is rendered as Λ
 $\backslash\text{Leftarrow}$ is rendered as \Leftarrow
 $\backslash\text{Leftrightarrow}$ is rendered as \Leftrightarrow
 $\backslash\text{Lleftarrow}$ is rendered as \Lleftarrow
 $\backslash\text{Longleftarrow}$ is rendered as \Longleftarrow
 $\backslash\text{Longleftrightarrow}$ is rendered as \Longleftrightarrow
 $\backslash\text{Longrightarrow}$ is rendered as \Longrightarrow
 $\backslash\text{Lsh}$ is rendered as \lsh
 $\backslash\text{Omega}$ is rendered as Ω
 $\backslash\text{P}$ is rendered as \P
 $\backslash\text{Phi}$ is rendered as Φ
 $\backslash\text{Pi}$ is rendered as Π
 $\backslash\text{Psi}$ is rendered as Ψ
 $\backslash\text{Re}$ is rendered as \Re
 $\backslash\text{Rrightarrow}$ is rendered as \Rightarrow
 $\backslash\text{Rrightarrow}$ is rendered as \Rrightarrow
 $\backslash\text{Rsh}$ is rendered as \rsh
 $\backslash\text{S}$ is rendered as \S
 $\backslash\text{Sigma}$ is rendered as Σ
 $\backslash\text{Subset}$ is rendered as \subseteq
 $\backslash\text{Supset}$ is rendered as \supseteq
 $\backslash\text{Theta}$ is rendered as Θ
 $\backslash\text{Upsilon}$ is rendered as Υ
 $\backslash\text{Vdash}$ is rendered as \Vdash
 $\backslash\text{Vvdash}$ is rendered as \Vvdash
 $\backslash\text{Xi}$ is rendered as Ξ
 $\backslash\text{aleph}$ is rendered as \aleph
 $\backslash\text{alpha}$ is rendered as α
 $\backslash\text{amalg}$ is rendered as \amalg

`\angle` is rendered as \angle
`\approx` is rendered as \approx
`\approxeq` is rendered as \cong
`\ast` is rendered as $*$
`\asymp` is rendered as \asymp
`\backepsilon` is rendered as ϵ
`\backprime` is rendered as \backprime
`\backsimeq` is rendered as \backsimeq
`\backsimeq` is rendered as \backsimeq
`\barwedge` is rendered as \barwedge
`\because` is rendered as \because
`\beta` is rendered as β
`\beth` is rendered as \beth
`\between` is rendered as \between
`\bigcap` is rendered as \bigcap
`\bigcirc` is rendered as \bigcirc
`\bigcup` is rendered as \bigcup
`\bigodot` is rendered as \bigodot
`\bigoplus` is rendered as \bigoplus
`\bigotimes` is rendered as \bigotimes
`\bigsqcup` is rendered as \bigsqcup
`\bigstar` is rendered as \bigstar
`\bigtriangledown` is rendered as \bigtriangledown
`\bigtriangleup` is rendered as \bigtriangleup
`\biguplus` is rendered as \biguplus
`\bigvee` is rendered as \bigvee
`\bigwedge` is rendered as \bigwedge
`\blacklozenge` is rendered as \blacklozenge
`\blacksquare` is rendered as \blacksquare
`\blacktriangle` is rendered as \blacktriangle
`\blacktriangledown` is rendered as \blacktriangledown
`\blacktriangleleft` is rendered as \blacktriangleleft
`\blacktriangleright` is rendered as \blacktriangleright

`\bot` is rendered as \perp
`\bowtie` is rendered as \bowtie
`\boxdot` is rendered as \boxdot
`\boxminus` is rendered as \boxminus
`\boxplus` is rendered as \boxplus
`\boxtimes` is rendered as \boxtimes
`\bullet` is rendered as \bullet
`\bumpeq` is rendered as \bumpeq
`\cap` is rendered as \cap
`\cdot` is rendered as \cdot
`\cdots` is rendered as \cdots
`\centerdot` is rendered as \cdot
`\checkmark` is rendered as \checkmark
`\chi` is rendered as χ
`\circ` is rendered as \circ
`\circeq` is rendered as $\overset{\circ}{=}$
`\circlearrowleft` is rendered as \circlearrowleft
`\circlearrowright` is rendered as \circlearrowright
`\circledS` is rendered as \circledS
`\circledast` is rendered as \circledast
`\circledcirc` is rendered as \circledcirc
`\circleddash` is rendered as \circleddash
`\clubsuit` is rendered as \clubsuit
`\colon` is rendered as $:$
`\complement` is rendered as \complement
`\cong` is rendered as \cong
`\coprod` is rendered as \coprod
`\cup` is rendered as \cup
`\curlyeqprec` is rendered as \curlyeqprec
`\curlyeqsucc` is rendered as \curlyeqsucc
`\curlyvee` is rendered as \curlyvee
`\curlywedge` is rendered as \curlywedge
`\curvearrowleft` is rendered as \curvearrowleft

`\curvearrowright` is rendered as \curvearrowright
`\dagger` is rendered as \dagger
`\daleth` is rendered as \daleth
`\dashv` is rendered as \dashv
`\ddagger` is rendered as \ddagger
`\ddots` is rendered as \ddots
`\delta` is rendered as δ
`\diagdown` is rendered as \diagdown
`\diagup` is rendered as \diagup
`\diamond` is rendered as \diamond
`\diamondsuit` is rendered as \diamondsuit
`\digamma` is rendered as \digamma
`\displaystyle` is rendered as
$$`\div` is rendered as \div
`\divideontimes` is rendered as \divideontimes
`\doteq` is rendered as \doteq
`\doteqdot` is rendered as \doteqdot
`\dotplus` is rendered as \dotplus
`\dots` is rendered as \dots
`\dotsb` is rendered as \dotsb
`\dotsc` is rendered as \dotsc
`\dotsi` is rendered as \dotsi
`\dotsm` is rendered as \dotsm
`\dotso` is rendered as \dotso
`\doublebarwedge` is rendered as \doublebarwedge
`\downdownarrows` is rendered as \downdownarrows
`\downharpoonleft` is rendered as \downharpoonleft
`\downharpoonright` is rendered as \downharpoonright
`\ell` is rendered as ℓ
`\emptyset` is rendered as \emptyset
`\epsilon` is rendered as ϵ
`\eqcirc` is rendered as \eqcirc
`\eqsim` is rendered as $\eqsim$$$

`\eqslantgtr` is rendered as \gtrless
`\eqslantless` is rendered as \lessgtr
`\equiv` is rendered as \equiv
`\eta` is rendered as η
`\eth` is rendered as \eth
`\exists` is rendered as \exists
`\fallingdotseq` is rendered as \fallingdotseq
`\flat` is rendered as \flat
`\forall` is rendered as \forall
`\frown` is rendered as \frown
`\gamma` is rendered as γ
`\geq` is rendered as \geq
`\geqq` is rendered as \geqq
`\geqslant` is rendered as \geqslant
`\gets` is rendered as \leftarrow
`\gg` is rendered as \gg
`\ggg` is rendered as \ggg
`\gimel` is rendered as \gimel
`\gnapprox` is rendered as \gtrapprox
`\gneq` is rendered as \gtrneq
`\gneqq` is rendered as \gtrneqq
`\gnsim` is rendered as \gtrsim
`\gtrapprox` is rendered as \gtrapprox
`\gtrdot` is rendered as \gtrdot
`\gtreqless` is rendered as \gtreqless
`\gtreqqless` is rendered as \gtreqqless
`\gtrless` is rendered as \gtrless
`\gtrsim` is rendered as \gtrsim
`\gvertneqq` is rendered as \gvertneqq
`\hbar` is rendered as \hbar
`\heartsuit` is rendered as \heartsuit
`\hookleftarrow` is rendered as \hookleftarrow
`\hookrightarrow` is rendered as \hookrightarrow

`\hslash` is rendered as \hbar
`\iff` is rendered as \iff
`\iiint` is rendered as \iiint
`\iiint` is rendered as \iiint
`\iint` is rendered as \iint
`\imath` is rendered as \imath
`\implies` is rendered as \implies
`\in` is rendered as \in
`\infty` is rendered as ∞
`\injlim` is rendered as $\operatorname{inj\,lim}$
`\int` is rendered as \int
`\intBar` is rendered as \intbar
`\intbar` is rendered as \intbar
`\intercal` is rendered as \intercal
`\iota` is rendered as ι
`\jmath` is rendered as \jmath
`\kappa` is rendered as κ
`\lVert` is rendered as \lVert
`\lambda` is rendered as λ
`\land` is rendered as \wedge
`\ldots` is rendered as \ldots
`\leftarrow` is rendered as \leftarrow
`\leftarrowtail` is rendered as \leftarrowtail
`\leftharpoondown` is rendered as \leftharpoondown
`\leftharpoonup` is rendered as \leftharpoonup
`\leftleftarrows` is rendered as \leftleftarrows
`\leftrightarrows` is rendered as \leftrightarrows
`\leftrightharpoons` is rendered as \leftrightharpoons
`\leftrightsquigarrow` is rendered as \leftrightsquigarrow
`\leftthreetimes` is rendered as \leftthreetimes
`\leq` is rendered as \leq
`\leqq` is rendered as \leqq

`\leqslant` is rendered as \leqslant
`\lessapprox` is rendered as \lessapprox
`\lessdot` is rendered as \lessdot
`\lesseqgtr` is rendered as \lesseqgtr
`\lesseqqgtr` is rendered as \lesseqqgtr
`\lessgtr` is rendered as \lessgtr
`\lesssim` is rendered as \lesssim
`\limits` is rendered for example as \bigcap^b_a
`\ll` is rendered as \ll
`\lll` is rendered as \lll
`\lnapprox` is rendered as \lnapprox
`\lneq` is rendered as \lneq
`\lneqq` is rendered as \lneqq
`\lnot` is rendered as \lnot
`\lnsim` is rendered as \lnsim
`\longleftarrow` is rendered as \longleftarrow
`\longlefttrightarrow` is rendered as \longleftrightarrow
`\longmapsto` is rendered as \longmapsto
`\longrightarrow` is rendered as \longrightarrow
`\looparrowleft` is rendered as \looparrowleft
`\looparrowright` is rendered as \looparrowright
`\lor` is rendered as \lor
`\lozenge` is rendered as \lozenge
`\ltimes` is rendered as \ltimes
`\lvertneqq` is rendered as \lvertneqq
`\mapsto` is rendered as \mapsto
`\measuredangle` is rendered as \measuredangle
`\mho` is rendered as \mho
`\mid` is rendered as \mid
`\mod` is rendered as \bmod
`\models` is rendered as \models
`\mp` is rendered as \mp
`\mu` is rendered as μ

`\multimap` is rendered as \multimap
`\nLeftarrow` is rendered as \nLeftarrow
`\nLeftrightarrow` is rendered as \nLeftrightarrow
`\nRightarrow` is rendered as \nRightarrow
`\nVDash` is rendered as \nVDash
`\nVdash` is rendered as \nVdash
`\nabla` is rendered as ∇
`\natural` is rendered as \natural
`\ncong` is rendered as \ncong
`\nearrow` is rendered as \nearrow
`\neg` is rendered as \neg
`\neq` is rendered as \neq
`\nexists` is rendered as \nexists
`\ngeq` is rendered as \ngeq
`\ngeqq` is rendered as \ngeqq
`\ngeqslant` is rendered as \ngeqslant
`\ngtr` is rendered as \ngtr
`\ni` is rendered as \ni
`\nleftarrow` is rendered as \nleftarrow
`\nleftrightarrow` is rendered as \nleftrightarrow
`\nleq` is rendered as \nleq
`\nleqq` is rendered as \nleqq
`\nleqslant` is rendered as \nleqslant
`\nless` is rendered as \nless
`\nmid` is rendered as \nmid
`\nolimits` is rendered for example as \cap_a^b
`\not` is rendered as \not
`\notin` is rendered as \notin
`\nparallel` is rendered as \nparallel
`\nprec` is rendered as \nprec
`\npreceq` is rendered as \npreceq
`\rightarrow` is rendered as \rightarrow
`\nshortmid` is rendered as \nshortmid

`\nshortparallel` is rendered as \nshortparallel
`\nsim` is rendered as \sim
`\nsubseteq` is rendered as \nsubseteq
`\nsubseteqq` is rendered as \nsubseteqq
`\nsucc` is rendered as \succ
`\nsucceq` is rendered as \succeq
`\nsupseteq` is rendered as \nsupseteq
`\nsupseteqq` is rendered as \nsupseteqq
`\ntriangleleft` is rendered as \ntriangleleft
`\ntrianglelefteq` is rendered as \ntrianglelefteq
`\ntriangleright` is rendered as \ntriangleright
`\ntrianglerighteq` is rendered as \ntrianglerighteq
`\nu` is rendered as ν
`\nvDash` is rendered as \nvDash
`\nvDash` is rendered as \nvdash
`\nwarrow` is rendered as \nwarrow
`\odot` is rendered as \odot
`\oiint` is rendered as \oiint
`\oiint` is rendered as \oiint
`\oint` is rendered as \oint
`\ointctrclockwise` is rendered as \oint
`\omega` is rendered as ω
`\ominus` is rendered as \ominus
`\oplus` is rendered as \oplus
`\oslash` is rendered as \oslash
`\otimes` is rendered as \otimes
`\parallel` is rendered as \parallel
`\partial` is rendered as ∂
`\perp` is rendered as \perp
`\phi` is rendered as ϕ
`\pi` is rendered as π
`\pitchfork` is rendered as \pitchfork
`\pm` is rendered as \pm

`\prec` is rendered as \prec
`\precapprox` is rendered as \approx
`\preccurlyeq` is rendered as \preccurlyeq
`\preceq` is rendered as \preceq
`\precnapprox` is rendered as \approx
`\precneqq` is rendered as \neq
`\precnsim` is rendered as \sim
`\precsim` is rendered as \lesssim
`\prime` is rendered as $'$
`\prod` is rendered as \prod
`\projlim` is rendered as proj lim
`\propto` is rendered as \propto
`\psi` is rendered as ψ
`\quad` is rendered as \quad
`\quad` is rendered as \quad
`\rVert` is rendered as $\|$
`\rho` is rendered as ρ
`\rightarrow` is rendered as \rightarrow
`\rightarrowtail` is rendered as \rightarrowtail
`\rightharpoondown` is rendered as \searrow
`\rightharpoonup` is rendered as \rightharpoonup
`\rightleftarrows` is rendered as \rightleftarrows
`\rightrightarrows` is rendered as \rightrightarrows
`\rightsquigarrow` is rendered as \rightsquigarrow
`\rightthreetimes` is rendered as \rightthreetimes
`\risingdotseq` is rendered as $\dot{=}$
`\rtimes` is rendered as \rtimes
`\scriptscriptstyle` is rendered as \scriptscriptstyle
`\scriptstyle` is rendered as \scriptstyle
`\searrow` is rendered as \searrow
`\setminus` is rendered as \setminus
`\sharp` is rendered as \sharp
`\shortmid` is rendered as \shortmid

`\shortparallel` is rendered as \parallel
`\sigma` is rendered as σ
`\sim` is rendered as \sim
`\simeq` is rendered as \simeq
`\smallfrown` is rendered as \frown
`\smallsetminus` is rendered as \setminus
`\smallsmile` is rendered as \smile
`\smile` is rendered as \smile
`\spadesuit` is rendered as \spadesuit
`\sphericalangle` is rendered as \sphericalangle
`\sqcap` is rendered as \sqcap
`\sqcup` is rendered as \sqcup
`\sqsubset` is rendered as \sqsubset
`\sqsubseteq` is rendered as \sqsubseteq
`\sqsupset` is rendered as \sqsupset
`\sqsupseteq` is rendered as \sqsupseteq
`\square` is rendered as \square
`\star` is rendered as \star
`\subset` is rendered as \subset
`\subseteq` is rendered as \subseteq
`\subseteqq` is rendered as \subseteqq
`\subsetneq` is rendered as \subsetneq
`\subsetneqq` is rendered as \subsetneqq
`\succ` is rendered as \succ
`\succapprox` is rendered as \succapprox
`\succcurlyeq` is rendered as \succcurlyeq
`\succeq` is rendered as \succeq
`\succnapprox` is rendered as \succnapprox
`\succneqq` is rendered as \succneqq
`\succnsim` is rendered as \succnsim
`\succsim` is rendered as \succsim
`\sum` is rendered as \sum
`\supset` is rendered as \supset

`\supseteq` is rendered as \supseteq
`\supseteqq` is rendered as \supseteqq
`\supsetneq` is rendered as \supsetneq
`\supsetneqq` is rendered as \supsetneqq
`\surd` is rendered as \surd
`\swarrow` is rendered as \swarrow
`\tau` is rendered as τ
`\textstyle` is rendered as \textstyle
`\therefore` is rendered as \therefore
`\theta` is rendered as θ
`\thickapprox` is rendered as \thickapprox
`\thicksim` is rendered as \thicksim
`\times` is rendered as \times
`\rightarrow` is rendered as \rightarrow
`\top` is rendered as \top
`\triangle` is rendered as \triangle
`\triangledown` is rendered as \triangledown
`\triangleleft` is rendered as \triangleleft
`\trianglelefteq` is rendered as \trianglelefteq
`\triangleq` is rendered as \triangleq
`\triangleright` is rendered as \triangleright
`\trianglerighteq` is rendered as \trianglerighteq
`\upharpoonleft` is rendered as \upharpoonleft
`\upharpoonright` is rendered as \upharpoonright
`\uplus` is rendered as \uplus
`\upsilon` is rendered as υ
`\upuparrows` is rendered as \upuparrows
`\vDash` is rendered as \vDash
`\varDelta` is rendered as \varDelta
`\varGamma` is rendered as \varGamma
`\varLambda` is rendered as \varLambda
`\varOmega` is rendered as \varOmega
`\varPhi` is rendered as \varPhi

$\backslash\text{varPi}$ is rendered as Π
 $\backslash\text{varSigma}$ is rendered as Σ
 $\backslash\text{varTheta}$ is rendered as Θ
 $\backslash\text{varUpsilon}$ is rendered as Υ
 $\backslash\text{varXi}$ is rendered as Ξ
 $\backslash\text{varepsilon}$ is rendered as ϵ
 $\backslash\text{varinjlim}$ is rendered as \varinjlim
 $\backslash\text{varkappa}$ is rendered as κ
 $\backslash\text{varliminf}$ is rendered as \varliminf
 $\backslash\text{varlimsup}$ is rendered as \varlimsup
 $\backslash\text{varnothing}$ is rendered as \emptyset
 $\backslash\text{varointclockwise}$ is rendered as \oint
 $\backslash\text{varphi}$ is rendered as φ
 $\backslash\text{varpi}$ is rendered as ϖ
 $\backslash\text{varprojlim}$ is rendered as \varprojlim
 $\backslash\text{varpropto}$ is rendered as \propto
 $\backslash\text{varrho}$ is rendered as ϱ
 $\backslash\text{varsigma}$ is rendered as ς
 $\backslash\text{varsubsetneq}$ is rendered as \subsetneq
 $\backslash\text{varsubsetneqq}$ is rendered as \subsetneqq
 $\backslash\text{varsupsetneq}$ is rendered as \supsetneq
 $\backslash\text{varsupsetneqq}$ is rendered as \supsetneqq
 $\backslash\text{vartheta}$ is rendered as ϑ
 $\backslash\text{vartriangle}$ is rendered as \triangle
 $\backslash\text{vartriangleleft}$ is rendered as \triangleleft
 $\backslash\text{vartriangleright}$ is rendered as \triangleright
 $\backslash\text{vdash}$ is rendered as \vdash
 $\backslash\text{vdots}$ is rendered as \vdots
 $\backslash\text{vee}$ is rendered as \vee
 $\backslash\text{veebar}$ is rendered as $\underline{\vee}$
 $\backslash\text{vline}$ is rendered as $|$
 $\backslash\text{wedge}$ is rendered as \wedge
 $\backslash\text{wp}$ is rendered as \wp

`\wr` is rendered as \wr

`\xi` is rendered as ξ

`\zeta` is rendered as ζ

A.24 Group `nullary_macro_in_mbox`

`\AA` is rendered as \forall

`\Coppa` is rendered as λ

`\Digamma` is rendered as \P

`\Koppa` is rendered as λ

`\Sampi` is rendered as ν

`\Stigma` is rendered as μ

`\coppa` is rendered as \imath

`\euro` is rendered as e

`\geneuro` is rendered as €

`\geneuronarrow` is rendered as €

`\geneurowide` is rendered as €

`\koppa` is rendered as θ

`\officialeguro` is rendered as e

`\sampi` is rendered as σ

`\stigma` is rendered as Σ

`\textvisiblespace` is rendered as ~

`\varstigma` is rendered as Υ

A.25 Group `other_delimiters1`

`\Downarrow` is rendered as \Downarrow

`\Uparrow` is rendered as \Uparrow

`\Updownarrow` is rendered as \Updownarrow

`\Vert` is rendered as $\|$

`\backslash` is rendered as \backslash

`\downarrow` is rendered as \downarrow

`\langle` is rendered as \langle

`\lbrace` is rendered as $\{$

`\lbrack` is rendered as $[$

`\lceil` is rendered as \lceil

\lfloor is rendered as \lfloor
 \llcorner is rendered as \llcorner
 \lrcorner is rendered as \lrcorner
 \rangle is rendered as \rangle
 \rbrace is rendered as $\}$
 \rbrack is rendered as $\}$
 \rceil is rendered as \rceil
 \rfloor is rendered as \rfloor
 \rightleftharpoons is rendered as \rightleftharpoons
 \twoheadleftarrow is rendered as \twoheadleftarrow
 \twoheadrightarrow is rendered as \twoheadrightarrow
 \ulcorner is rendered as \ulcorner
 \uparrow is rendered as \uparrow
 \updownarrow is rendered as \updownarrow
 \urcorner is rendered as \urcorner
 \vert is rendered as \vert

A.26 Group other_delimiters2

\Downarrow is rendered as \Downarrow
 \Uparrow is rendered as \Uparrow
 \dArr is rendered as \Downarrow
 \darr is rendered as \downarrow
 \lang is rendered as \langle
 \rang is rendered as \rangle
 \uArr is rendered as \Uparrow
 \uarr is rendered as \uparrow

A.27 Group right_function

\right is rendered as \rangle