1 Introduction

This package provides support for the use of the Plimsoll symbol “⊙” in \LaTeX.

2 Loading the package

\usepackage{plimsoll}

In math mode the Plimsoll symbol is available with the command \plimsoll command.

2.1 Options

sans Provides the use of a sans serif version of the Plimsoll symbol: ⊙.

This version of the symbol is available with \plimsollsans as well.

circ Make use of \circ for denoting the standard state instead of the Plimsoll symbol.

See section 3.

3 The standard mark

In chemistry the Plimsoll symbol is sometimes used for denoting values of funtions of state in the standard state of a chemical agent. This could be the standard Gibbs energy G*.

Denoting the standard state is available in math mode with \stst. This is compatible with the command name suggested in the \LaTeX Symbol List. An example of using the symbol is
\( \Delta G^{\circ} = \Delta H^{\circ} - T \cdot \Delta S^{\circ} \) (1)

The package option circ redefines the \texttt{\stst} to use the \texttt{\circ} command instead of the \texttt{\plimsoll} command. This is officially recommended by IUPAC but is not used consequentially. It appears to be a matter of taste. This package provides easy interchange between the two different choices.

4 License

The LaTeX plimsoll package is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

The LaTeX plimsoll package is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with the LaTeX plimsoll package. If not, see <https://www.gnu.org/licenses/>.
5 Source

% This file is part of the LaTeX plimsoll package.

% The LaTeX plimsoll package is free software: you can redistribute it
% and/or modify it under the terms of the GNU General Public License
% as published by the Free Software Foundation, either version 3 of
% the License, or (at your option) any later version.

% The LaTeX plimsoll package is distributed in the hope that it will
% be useful, but WITHOUT ANY WARRANTY; without even the implied
% warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See
% the GNU General Public License for more details.

% You should have received a copy of the GNU General Public License
% along with the LaTeX plimsoll package. If not, see
% <https://www.gnu.org/licenses/>.
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{plimsoll}[2020/10/09 Plimsoll symbol LaTeX Support,
Palle Jorgensen. Version 1.]
\DeclareFontFamily{U}{plimsoll}{}\protect\DeclareFontShape{U}{plimsoll}{m}{n}{<->plimsoll}{}
\DeclareFontShape{U}{plimsoll}{m}{s}{<->plimsoll=sans}{}
\DeclareSymbolFont{plimsoll}{U}{plimsoll}{m}{n}\protect\DeclareSymbolFont{plimsoll=sans}{U}{plimsoll}{m}{s}
\DeclareMathSymbol\plimsollroman{0}{plimsollroman}{"001}
\DeclareMathSymbol\plimsollsans{0}{plimsollsans}{"001}
\let\plimsoll\plimsollroman
\def\stst{^\plimsoll}
\DeclareOption{sans}{\let\plimsoll\plimsollsans}
\DeclareOption{circ}{\def\stst{^\circ}}
\ProcessOptions*
\endinput