Speed Converter

Convert speed between the listed units using a common reference. Check both the distance and time units in the source and target; the input’s sign is retained.

Formula: converted = input * factor(from) / factor(to)

INPUTS AND EXAMPLE VALUES

Value: 1

From unit: m/s; choices: m/s (m/s), km/h (km/h), mph (mph), knot (knot), ft/s (ft/s)

To unit: km/h; choices: m/s (m/s), km/h (km/h), mph (mph), knot (knot), ft/s (ft/s)

CHECK THE DEFAULT EXAMPLE

Converted value: 3.6 km/h

LIMITS AND CONVENTIONS

Only the listed distance-per-time units are supported; mathematical negative values are retained.

This is a unit conversion, not a model of acceleration, stops or a changing-speed journey.

METHOD AND SOURCES

https://azhanmh.com/guides/tools/speed-converter

NIST - SI Guide: conversion factors, Appendix B.8: https://www.nist.gov/pml/special-publication-811/nist-guide-si-appendix-b-conversion-factors/nist-guide-si-appendix-b8

Display precision is for reporting; keep unrounded values for later calculations. Verify units and conventions. This reference does not replace institution, employer or network rules.