Weight Converter

Convert mass between the listed units using a common reference. Select the source and target mass units; material volume requires separate density information.

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

INPUTS AND EXAMPLE VALUES

Value: 1

From unit: kg; choices: kg (kg), g (g), mg (mg), lb (lb), oz (oz), tonne (tonne)

To unit: g; choices: kg (kg), g (g), mg (mg), lb (lb), oz (oz), tonne (tonne)

CHECK THE DEFAULT EXAMPLE

Converted value: 1,000 g

LIMITS AND CONVENTIONS

The listed units measure mass, not gravitational force; mathematical negative values are retained.

Material volume requires a separate density, and force weight requires a gravitational acceleration.

METHOD AND SOURCES

https://azhanmh.com/guides/tools/weight-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.