

# Isobaric Heat Capacity = Cp

@wikipedia

Amount of [heat](#) to be supplied to a given amount of a material under a constant [pressure](#) to produce a unit change in its [temperature](#):

$$C_p = \left( \frac{\delta Q}{\delta T} \right)_p$$

**Isobaric Heat Capacity**  $C_p$  is proportional to the amount of the matter involved in a [Heat Transfer](#) process and as such is not a [material property](#).

One can relate it to [material properties](#) through the known material [mass](#)  $m$  or a material [volume](#)  $V$ :

(1)	$C_p = m \cdot c_{mp} = V \cdot c_{vp}$
$c_{mp}$	Isobaric specific heat capacity
$c_{vp}$	Isobaric volumetric heat capacity

## See also

---

[Physics](#) / [Thermodynamics](#) / [Thermodynamic process](#) / [Heat Transfer](#) / [Heat Capacity](#)

[ [Heat](#) ] [ [Isochoric heat capacity](#) ]

[ [Specific heat capacity](#) ] [ [Volumetric Heat Capacity](#) ]