

# Isobaric volumetric heat capacity (cvp)

@wikipedia

Amount of [heat](#) required to change the temperature of one unit of [volume](#) under a constant [pressure](#) by one unit of [temperature](#):

$$c_{vp} = \left( \frac{\delta Q}{\delta V \cdot \delta T} \right)_p$$

Symbol	Dimension	SI units	Oil metric units	Oil field units
$c_{vp}$	$M \ L^{-1} \ T^{2 \ 1}$	$J/(m^3 K)$	$J/(m^3 K)$	$BTU/(ft^3 F)$

It is a [material property](#) and properly tabulated for the vast majority of materials.

## See also

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

[ [Isochoric volumetric heat capacity \( \$c\_v\$ \)](#) ]

[ [Basic Petroleum Rock and Fluid Properties Handbook](#) ]