

# *Carpinus betulus*

## Habitus and growth type

Plant height [m]: **17.65**

Life span: **Perennial**

Life form: **Phanerophyte, Tree**

## Leaf

Leaf type (woody plants only): **Broad deciduous or semi-deciduous**

Leaf phenology (woody plants only): **Winter deciduous**

Specific leaf area [mm<sup>2</sup>/mg]: **21.59**

## Flower

Flowering period: **April-June**

## Fruit, seed and dispersal

Seed mass [mg]: **47.78**

Dispersal mode: **Dyszoochory, Anthropochory**

Dispersal distance class: **6, 7**

## Trophic mode

Parasitism and mycoheterotrophy: **autotroph**

Carnivory: **non-carnivorous**

Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

## Taxon origin

Origin in Europe: **native**

## Ecology

### Environmental relationships

Substrate humidity relationship: **Mesic**

Substrate reaction relationship: **Slightly acidic to near-neutral**

Nutrient relationship: **Mesotrophic**

Salinity relationship: **Non-saline**

### Ellenberg-type indicator values

Light indicator value: **4.4**

Temperature indicator value: **5.9**

Moisture indicator value: **5.4**

Reaction indicator value: **5.5**

Nutrient indicator value: **5.3**

Salinity indicator value: **0**

## Disturbance indicator values

Disturbance frequency: **0.03**

Disturbance frequency (herb layer): **1.33**

Disturbance severity: **0.7**

Disturbance severity (herb layer): **0.14**

Mowing frequency: **0.01**

Grazing pressure: **0.2**

Soil disturbance: **0.11**

## Habitat and sociology

### Syntaxon

Diagnostic species of phytosociological classes: [CA \(FAG\) \*Carpino-Fagetea sylvaticae\*](#)

### EUNIS habitat

Diagnostic species of EUNIS habitats: [T13 Temperate hardwood riparian forest](#), [T17 Fagus forest on non-acid soils](#), [T1B Acidophilous Quercus forest](#), [T1E Carpinus and Quercus mesic deciduous forest](#), [T1F Ravine forest](#)

Constant species of EUNIS habitats: [S38 Temperate forest clearing scrub](#), [T13 Temperate hardwood riparian forest](#), [T17 Fagus forest on non-acid soils](#), [T19 Temperate and submediterranean thermophilous deciduous forest](#), [T1B Acidophilous Quercus forest](#), [T1E Carpinus and Quercus mesic deciduous forest](#), [T1F Ravine forest](#)

Dominant species of EUNIS habitats: [T1E Carpinus and Quercus mesic deciduous forest](#)

### Broad habitat

Occurrence in broad habitats: **Grassland (non-alpine, non-saline), Scrub, Forest**

## Distribution

Continentality: **5**

Continentality amplitude: **3**