

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 [mm²/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: [T1E *Carpinus* and *Quercus* mesic deciduous 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](#), [T1H Broadleaved deciduous plantation of non site-native trees](#)

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**