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^2/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**

© 2014–2026 Pladias – Citation: Pladias – Database of the Czech Flora and Vegetation. www.pladias.cz

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**

© 2014–2026 Pladias – Citation: Pladias – Database of the Czech Flora and Vegetation. www.pladias.cz