

# *Viola hirta*

## Habitus and growth type

Plant height [m]: **0.11**

Life span: **Perennial**

Life form: **Hemicryptophyte**

## Leaf

Specific leaf area [mm<sup>2</sup>/mg]: **18.23**

## Flower

Flowering period: **January-April**

## Fruit, seed and dispersal

Seed mass [mg]: **3.21**

Dispersal mode: **Myrmecochory**

Dispersal distance class: **3**

## 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: **Dry**

Substrate reaction relationship: **Alkaline**

Nutrient relationship: **Oligotrophic**

Salinity relationship: **Non-saline**

### Ellenberg-type indicator values

Light indicator value: **6.3**

Temperature indicator value: **5.2**

Moisture indicator value: **3.3**

Reaction indicator value: **7.9**

Nutrient indicator value: **2.6**

Salinity indicator value: **0**

### Disturbance indicator values

Disturbance frequency: **0.4**

Disturbance frequency (herb layer): **1.51**  
Disturbance severity: **0.57**  
Disturbance severity (herb layer): **0.32**  
Mowing frequency: **0.3**  
Grazing pressure: **0.24**  
Soil disturbance: **0.14**

## Habitat and sociology

### Syntaxon

Diagnostic species of phytosociological classes: [CB \(PUB\) \*Quercetea pubescentis\*](#), [CL \(GER\) \*Trifolio-Geranietea sanguinei\*](#), [DA \(FES\) \*Festuco-Brometea\*](#)

### EUNIS habitat

Diagnostic species of EUNIS habitats: [R1A Semi-dry perennial calcareous grassland \(meadow steppe\)](#), [R51 Thermophilous forest fringe of base-rich soils](#), [T36 Temperate and submediterranean montane \*Pinus sylvestris\*-\*Pinus nigra\* forest](#)

Constant species of EUNIS habitats: [R1A Semi-dry perennial calcareous grassland \(meadow steppe\)](#), [R51 Thermophilous forest fringe of base-rich soils](#), [T19 Temperate and submediterranean thermophilous deciduous forest](#), [T36 Temperate and submediterranean montane \*Pinus sylvestris\*-\*Pinus nigra\* forest](#)

### Broad habitat

Occurrence in broad habitats: **Grassland (non-alpine, non-saline), Scrub, Forest, Sparsely vegetated (incl. rock and scree)**

## Distribution

Continentality amplitude: **6**