

# *Viola calcarata*

## Habitus and growth type

Plant height [m]: **0.07**

Life span: **Perennial**

Life form: **Hemicryptophyte**

## Flower

Flowering period: **April-August**

## Fruit, seed and dispersal

Seed mass [mg]: **0.89**

Dispersal mode: **Myrmecochory, Anthropochory**

Dispersal distance class: **3, 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: **Alkaline**

Nutrient relationship: **Oligotrophic**

Salinity relationship: **Non-saline**

### Ellenberg-type indicator values

Light indicator value: **7.7**

Temperature indicator value: **1.6**

Moisture indicator value: **6**

Reaction indicator value: **8**

Nutrient indicator value: **2**

Salinity indicator value: **0**

### Disturbance indicator values

Disturbance frequency: **1.13**

Disturbance frequency (herb layer): **1.73**

Disturbance severity: **0.32**

Disturbance severity (herb layer): **0.28**

Mowing frequency: **0.04**

Grazing pressure: **0.26**

Soil disturbance: **0.12**

### **Habitat and sociology**

Broad habitat

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

### **Distribution**

Continentality: **6**

Continentality amplitude: **2**