



Product Information Sheet

S7777
Silwet[®] L-77

Synonym: 3-(2-methoxyethoxy)propyl-methyl-bis(trimethylsilyloxy)silane
CAS: 27306-78-1
Formula: C₁₃H₃₄O₄Si₃
Molecular Wt: 338.66 g/mol

Properties

Form: Liquid
Appearance: Pale yellow
Application: Floral Dip Transformation
Density: 1.007 g/mL
Solubility: Dispersible in water
Typical Working Concentration: 0.1% (v/v) is most common, but applications range from 0.001-0.3% (v/v)
Surface Tension: 20.5 mN/m [0.1% (v/v)]
Storage Temp: Room Temperature

Application Notes

Silwet L-77 is the tradename of the mixture of surfactants (84%) polyalkyleneoxide modified heptamethyltrisiloxane and (16%) allyloxypolyethyleneglycol methyl ether. These are non-ionic surfactants which reduce the surface tension of aqueous solutions.

Though the seminal paper of Clough and Bent used 0.05% (v/v) Silwet L-77 to transform *Arabidopsis* (1998); 0.1% (v/v) Silwet L-77 is the most common concentration used in floral-dip transformation with *Agrobacterium tumefaciens*.

References

Clough SJ and Bent AF. 1998. Floral dip: a simplified method for *Agrobacterium*-mediated transformation of *Arabidopsis thaliana*. *The Plant Journal* Vol 16(6) pg. 735-743.

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