Product Information Sheet

S7777
Silwet® L-77

Synonym:	3-(2-methoxyethoxy)propyl-methyl-bis(trimethylsilyloxy)silane
CAS:	27306-78-1
Formula:	$C_{13}H_{34}O_4Si_3$
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 tumefacians*.

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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