

Reed Diffuser Liquid Development

A practical guide to the base, fragrance, reeds and validation process.

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Treat the diffuser as one system

Base and fragrance

The base influences solubility, viscosity and evaporation. The fragrance changes both the scent and the behaviour of the mixture. A clear blend at preparation is only an initial observation, not proof of long-term stability.

Reeds and vessel

Reed material, quantity and exposed length affect liquid transport. Bottle opening, fill level and closure design also matter. Compare candidates using the same reed and vessel setup.

Environment

Temperature, airflow and humidity can change perceived strength and consumption. Record the conditions when evaluating samples. Avoid guaranteeing a universal service life based on an unverified recipe.

Terminology

The supplied recipes mention DPG and DPM. These are different substances and should not be substituted by abbreviation alone. Identify each material by its supplier documentation and approved specification.

Create a development test matrix

Define the target

Specify desired scent strength, appearance, product volume, target market and packaging. Set a practical evaluation period and agreed acceptance criteria before choosing a blend.

Check compatibility

Evaluate clarity, separation, colour change, sediment and compatibility with the bottle, closure and reeds. Include the relevant storage and transport conditions in the test plan.

Measure performance

Track sample identity, starting mass, elapsed time and mass change using a consistent method. Record perceived scent strength separately; faster liquid loss does not necessarily mean a better fragrance experience.

Avoid unsupported additions

Do not assume water, glycerin, household oils or alternative solvents can be added without consequences. They can change solubility, transport, stability and hazard properties. This guide intentionally provides no unvalidated blending ratios.

Documentation and responsible use

Fragrance documentation

Request documentation for the intended application. An IFRA conformity certificate is supplied by the fragrance supplier for a stated use; it does not replace the finished-product safety assessment or applicable local requirements.

Finished-product review

Request the relevant safety data, packaging compatibility results and labelling information. The liquid's hazard profile depends on its actual composition; flame-free operation does not establish nonflammability.

User instructions

Room fragrance liquid is not a skin-care product. Do not instruct consumers to patch-test it on skin. Give clear handling, spill and placement instructions based on the actual product and its packaging.

Approval and change control

Approve the liquid, fragrance code, reed specification, bottle and closure together. Re-evaluate meaningful component changes and keep batch traceability for production.

Useful links & reading notes

Reed Diffusers

<https://olfay.com/products/reed-diffusers/>

Capabilities

<https://olfay.com/capabilities/>

Wholesale

<https://olfay.com/wholesale/>

Contact

<https://olfay.com/contact/>

About this guide

An original English synthesis prepared for OLFAY buyers from the supplied Chinese reference collection. It adapts concepts into commercial briefing, evaluation and process questions; it is not a translation of a verified factory procedure or a ready-to-use formulation.

Supplied reference topics: Reed Diffuser Refill Formulations; Reed Diffuser Formulations; Home Fragrance Production Process.

Documentation reference: IFRA: using the standards.

Website links are clickable. Product availability, minimum quantities, lead times and final specifications should be confirmed with OLFAY for your project.

Discuss your home fragrance project

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