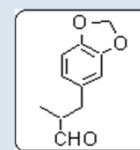


Flavors & Fragrances

* HeliofreshR

HeliofreshR is used in making perfumes and toiletry products, and offers a fresh, marine aroma. UBE uses its own unique production process to produce HeliofreshR synthetically, minimizing impact on the environment.

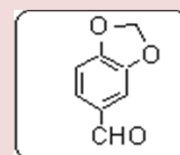


CAS 1205-17-0, MITI 5-3560, EINECS 214-881-6, TSCA registered

Trade name: HeliofreshR

* Heliotropin

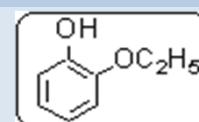
Heliotropin is used in making perfumes and flavors. The UBE production process is completely synthetic and does not involve deforestation, thus minimizing impact on the environment.



CAS 120-57-0, MITI 5-514, EINECS 204-409-7, TSCA registered

* Guethol

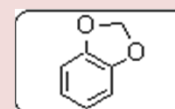
Guethol is a derivative of catechol used as a raw material in making fragrances.



CAS 94-71-3, MITI 3-568, EINECS 202-358-5, TSCA registered

* 1,2-Methylenedioxybenzene (MDB)

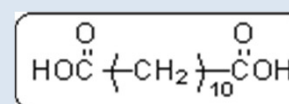
MDB is a colorless liquid used as a raw material in making fragrances.



CAS 274-09-9, MITI 5-5342, EINECS 205-992-0, TSCA registered

* 1,12-Dodecanedioic acid (DDA)

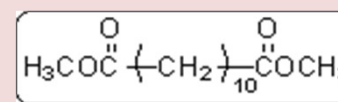
DDA is used in various organic synthesis reactions, as a raw material in making synthetic musk fragrances and as a rust preventive for cutting oil.



CAS 693-23-2, MITI 2-878, EINECS 211-746-3, TSCA registered

* Dimethyl 1,12-dodecanedioate (DDME)

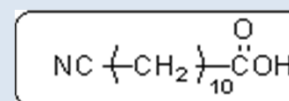
DDME is used as a raw material for making synthetic musk fragrances.



CAS 1731-79-9, MITI 2-879, EINECS 217-050-6, TSCA (not registered)

* 11-Cyanoundecanoic acid (CUA)

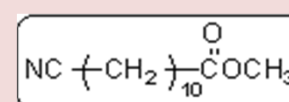
CUA is used as a raw material in making fragrances.



CAS 5810-18-4, MITI 2-3687, EINECS 227-373-4, TSCA (not registered)

* Methyl 11-Cyanoundecanoate (MCU)

MCU is used as a raw material in making fragrances.



CAS 22915-49-7, MITI 2-3666, EINECS (not registered), TSCA (not registered)