

Amines

We offer a comprehensive series of fatty amines, ether amines, and diamines under the tradenames ADOGEN®, SHUR-FLO®, and AROSURF®. Most fatty amines are made by reacting ammonia with fatty acid to form nitriles, followed by hydrogenation. The alkyl chains in fatty amines are predominately derived from natural fats and oils such as tallow, coconut, canola and rapeseed. Some secondary and tertiary amines are made by reacting ammonia with fatty alcohols. Ether amines differ from fatty amines in that they are made from acrylonitrile and fatty alcohols, which can be highly branched. Ether amines are much more liquid at low temperatures than similar molecular weight fatty amines. Household Care makes both fatty diamines and ether diamines by reacting acrylonitrile with the appropriate primary amine and hydrogenating to produce the propylene diamine. Many variations on these amines are possible.

- **ADOGEN® 113**

ADOGEN® 113 - a liquid, fully-saturated amine with extremely low pour point. The methyl branching is responsible for the low pour point and liquidity, and contributes to the good solvent miscibility of the amine.

- **ADOGEN® 140**

ADOGEN® 140 is primary hydrogenated tallow amine produced from stearyl fatty acid.

- **ADOGEN® 140 D**

ADOGEN® 140 D is distilled primary hydrogenated tallow amine produced from stearyl fatty acid.

- **ADOGEN® 142**

ADOGEN® 142 is a primary stearyl amine produced from high C₁₈ content fatty acid.

- **ADOGEN® 142 D**

ADOGEN® 142 D is a distilled primary stearyl amine produced from high C₁₈ content fatty acid.

- **ADOGEN® 160 D**

ADOGEN® 160 D is distilled primary amine produced from coconut fatty acid.

- **ADOGEN® 160 DEO**

ADOGEN® 160 DEO is distilled primary amine produced from coconut fatty acid.

- **ADOGEN® 163 D**

ADOGEN® 163 D is a distilled primary lauryl amine.

- **ADOGEN® 170**

ADOGEN® 170 is primary amine produced from tallow fatty acid.

- **ADOGEN® 170 D**

ADOGEN® 170D is distilled primary amine produced from tallow fatty acid.

- **ADOGEN® 170 D EO**

ADOGEN® 170 D EO is distilled primary amine produced from tallow fatty acid.

Fatty amines are weak bases soluble in common organic solvents such as benzene, hexane, and isopropanol but insoluble in water. Salts prepared by reacting the amines with acetic acid are water dispersible.

- **ADOGEN® 172**

ADOGEN® 172 is primary oleyl amine of vegetable origin.

- **ADOGEN® 172 D**

ADOGEN® 172 D is distilled primary oleyl amine of vegetable origin.

- **ADOGEN® 240**

ADOGEN® 240 is Di-hydrogenated tallow amine.

- **ADOGEN® 343 HP**

ADOGEN® 343 HP is methyl dihard tallow amine.

- **ADOGEN® 349**

ADOGEN® 349 is a distearyl methyl tertiary amine.

- **ADOGEN® 364**

ADOGEN® 364 is a trialkyl amine. Tri-(C₈-C₁₀) alkyl amines.

- **ADOGEN® 369**

ADOGEN® 369 is Di-coco methyl tertiary amine.

- **ADOGEN® 513**

ADOGEN® 513 is an iso-tridecyl ether diamine. ADOGEN® 513 – a liquid, fully-saturated diamine with extremely low pour point. The methyl branching is responsible for the low pour point and liquidity, and contributes to the good solvent miscibility of the diamine.

- **ADOGEN® 570 S**

ADOGEN® 570 S is tallow-1,3-propylene diamine