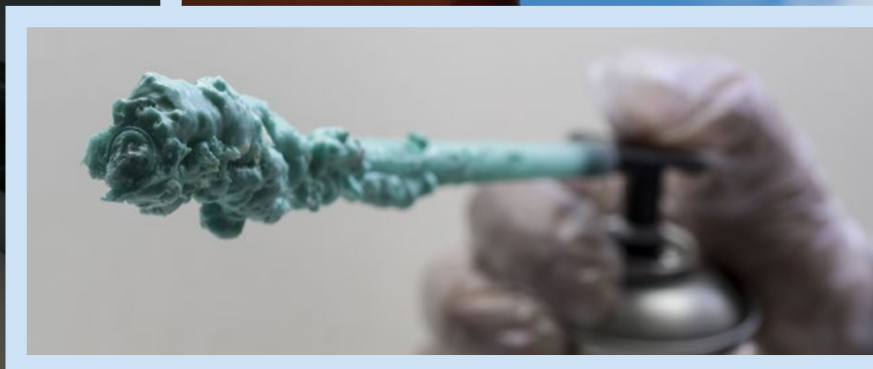
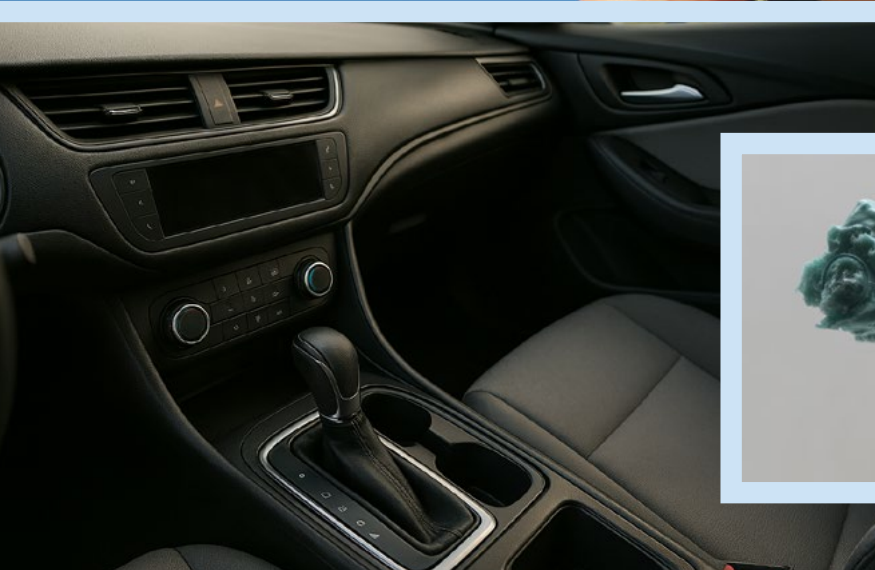


BASF Intermediates

# Lupragen® Polyurethane Catalysts



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

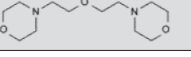
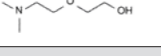



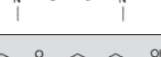


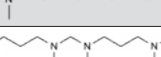
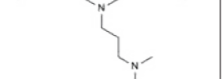


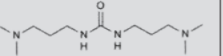

# Lupragen®

BASF is a renowned leading producer of amines. BASF markets its amine catalysts for Polyurethane (PU) under the Lupragen® brand. PU catalysts are typically tertiary amines, which are required to facilitate the reaction of the main components – isocyanate and polyol. Depending on the choice of catalyst the polyurethane forming process can be controlled to enhance the gelling or blowing reaction.

## Our customers benefit from:

- A comprehensive product portfolio covering broad application areas from rigid to flexible PU foam
- Low-VOC catalysts addressing increasing demand for end-consumer products
- Excellent and consistent catalyst quality
- High level of supply reliability
- Global network of BASF with local market knowledge

## Comprehensive Portfolio of PU Catalysts

| Lupragen® | PU Catalyst Type | Chemical Structure  | Chemical Name   | CAS-no.    | Mol. Weight [g/mol] | Melting Point [°C] | Boiling Point [°C] | min. Purity/content (method) [%] | Low VOC | Application   |        |                 |            |            |                | Reaction Type |         |         |               |
|-----------|------------------|---|---|------------|---------------------|--------------------|--------------------|----------------------------------|---------|---------------|--------|-----------------|------------|------------|----------------|---------------|---------|---------|---------------|
|           |                  |   |   |            |                     |                    |                    |                                  |         | Flexible foam |        | Semi-rigid foam | Rigid foam | Spray foam | Micro-cellular | CASE          | Gelling | Blowing | Trimerization |
|           |                  |   |   |            |                     |                    |                    |                                  |         | Slabstock     | Molded |                 |            |            |                |               |         |         |               |
| N 100     | DMCHA            |    | N,N-Dimethylcyclohexylamine                                   | 98-94-2    | 127.2               | -77                | 162                | 99.0 (GC)                        |         |               |        |                 | •          | •          |                |               |         | •       |               |
| N 101     | DMEOA            |    | N,N-Dimethylethanolamine                                      | 108-01-0   | 89.1                | -59                | 134                | 99.8 (GC)                        | •       | •             | •      |                 | •          | •          |                |               |         | •       |               |
| N 105     | NMM              |    | N-Methylmorpholine  | 109-02-4   | 101.2               | -65                | 115                | 99.0 (GC)                        |         | •             | •      |                 | •          |            | •              |               |         | •       |               |
| N 106     | DMDEE            |  | 2,2'-Dimorpholinodiethylether                                 | 6425-39-4  | 244.3               | -28                | 309                | 99.8 (GC)                        | •       | •             | •      |                 | •          | •          |                | •             |         | •       |               |
| N 107     | DMAEE            |  | Dimethylaminoethoxyethanol                                    | 1704-62-7  | 133.2               | < -70              | 204                | 99.0 (GC)                        | •       | •             | •      | •               | •          | •          | •              | •             |         | •       |               |
| N 201     | TEDA in DPG      |  | Triethylenediamine 33% sol. in dipropylene glycol             | 280-57-9   | 112.2               | -39                | 173                | 33.1-33.5 (titration)            |         | •             | •      | •               | •          | •          | •              | •             | •       | •       |               |
| N 203     | TEDA in MEG      |  | Triethylenediamine 33% sol. in monoethyleneglycol             | 280-57-9   | 112.2               | -67                | 196                | 33.1-33.5 (titration)            |         | •             | •      | •               | •          | •          | •              | •             | •       | •       |               |
| N 205     | BDMAEE           |  | Bis(2-dimethylaminoethyl)ether                                | 3033-62-3  | 160.3               | < -80              | 188                | 97.0 (GC)                        |         | •             | •      | •               | •          | •          |                |               |         | •       |               |
| N 206     | BDMAEE / DPG     |  | Bis(2-dimethylaminoethyl)ether 70% sol. in dipropylene glycol | 3033-62-3  | 160.3               | < -80              | 188                | 68.0-72.0 (titration)            |         | •             | •      | •               | •          | •          |                |               |         | •       |               |
| N 208     | HE-TMAEE         |  | N,N,N'-Trimethyl-N'-(2-hydroxyethyl)bis(2-aminoethyl) ether   | 83016-70-0 | 190.3               | -53                | 263                | 94 (GC)                          | •       | •             | •      | •               |            | •          |                |               |         | •       |               |
| N 400     | TMAEEA           |  | N,N,N'-Trimethylaminoethylethanolamine                        | 2212-32-0  | 146.2               | < -70              | 210                | 98.5 (GC)                        | •       | •             | •      | •               | •          |            |                |               | •       | •       |               |
| N 500     | TMHDA            |  | N,N,N',N'-Tetramethyl-1,6-hexanediamine                       | 111-18-2   | 172.3               | -46                | 212-216            | 99.0 (GC)                        |         | •             | •      | •               | •          | •          |                |               |         | •       |               |
| N 600     | S-Triazine       |  | 1,3,5-Tris(dimethylaminopropyl)-hexahydro-s-triazine          | 15875-13-5 | 342.6               | -59                | 225                | 94.0 (titration)                 |         | •             | •      |                 | •          |            | •              |               |         |         | •             |
| N 700     | DBU              |  | 1,8-Diazabicyclo-5,4,0-undecene-7                             | 6674-22-2  | 152.2               | -70                | 262                | 98.0 (GC)                        | •       | •             | •      |                 | •          |            | •              | •             | •       | •       |               |
| API       | API              |  | N-(3-Aminopropyl)imidazole                                    | 5036-48-6  | 125.2               | -68                | 296                | 97.0 (GC)                        | •       | •             | •      | •               | •          |            |                |               | •       |         |               |
| BisDMAPU  | BisDMAPU         |  | 1,3-Bis[3-(dimethylamino)propyl]urea                          | 52338-87-1 | 230.4               | 11                 | nd                 | 98.0 (titration)                 | •       | •             | •      |                 |            |            | •              |               | •       | •       |               |
| DMI       | DMI              |  | 1,2-Dimethylimidazole   | 1739-84-0  | 96.1                | 20-40              | 205                | 96.0 (GC)                        |         | •             | •      | •               | •          |            |                |               | •       |         |               |

If not specified, b.p. and m.p. are measured at 1013 hPa.

Lupragen® is a registered trademark of BASE SE in many countries.



## Polyurethane Catalysts

<https://chemicals.basf.com/global/en/Intermediates>

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