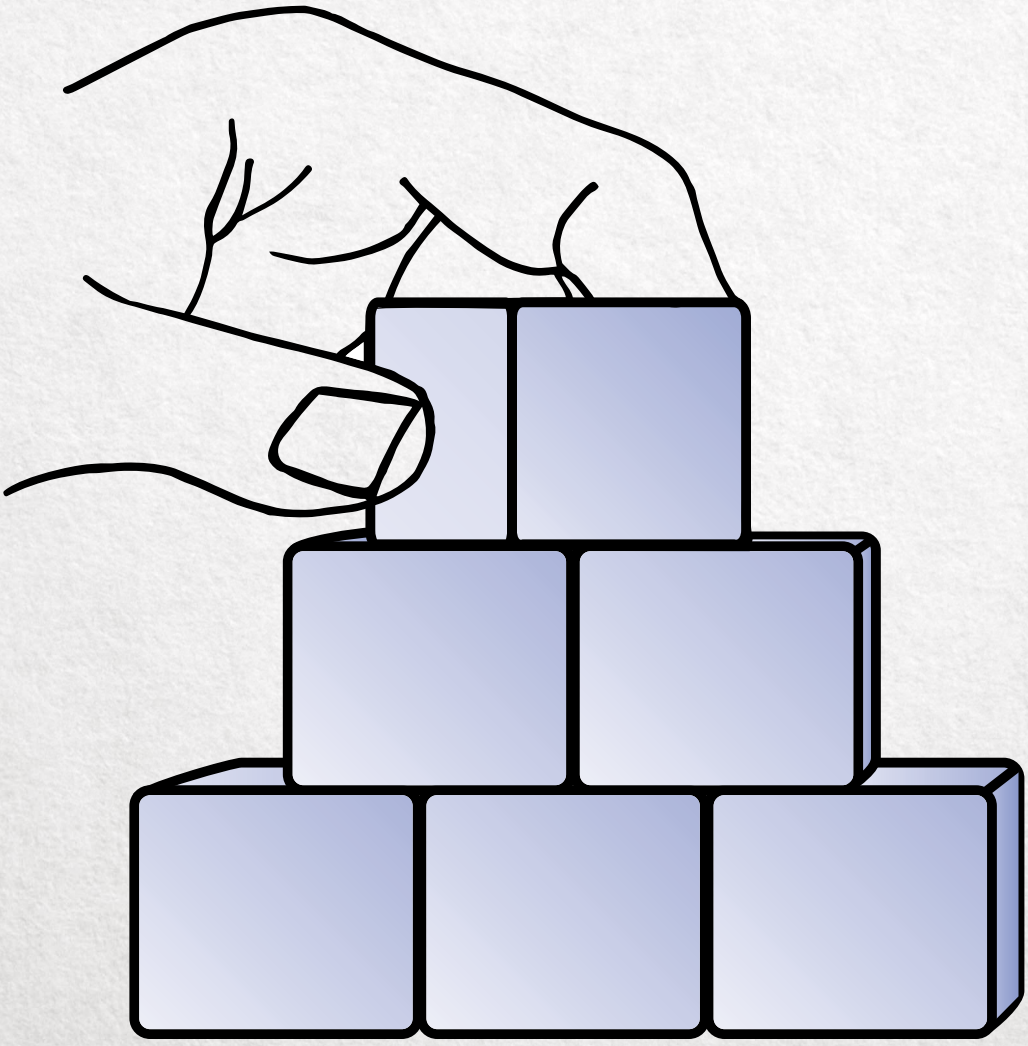
BASF
We create chemistry

BASF Oilfield Chemicals

Amines
The essential building blocks
for oilfield applications



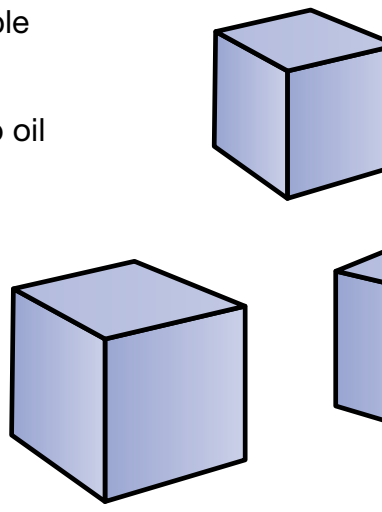


Amines are the building blocks of a wide variety of oilfield applications, especially in the production chemicals segment. From basic amines to fully formulated solutions, the BASF Oilfield Chemicals portfolio helps customers maximize their oil production.

BASF manufactures 300 different amines at six production sites around the world. Using in-house expertise, we have carefully screened our industry-leading amines portfolio, to select and offer the amines best suited to oilfield applications.

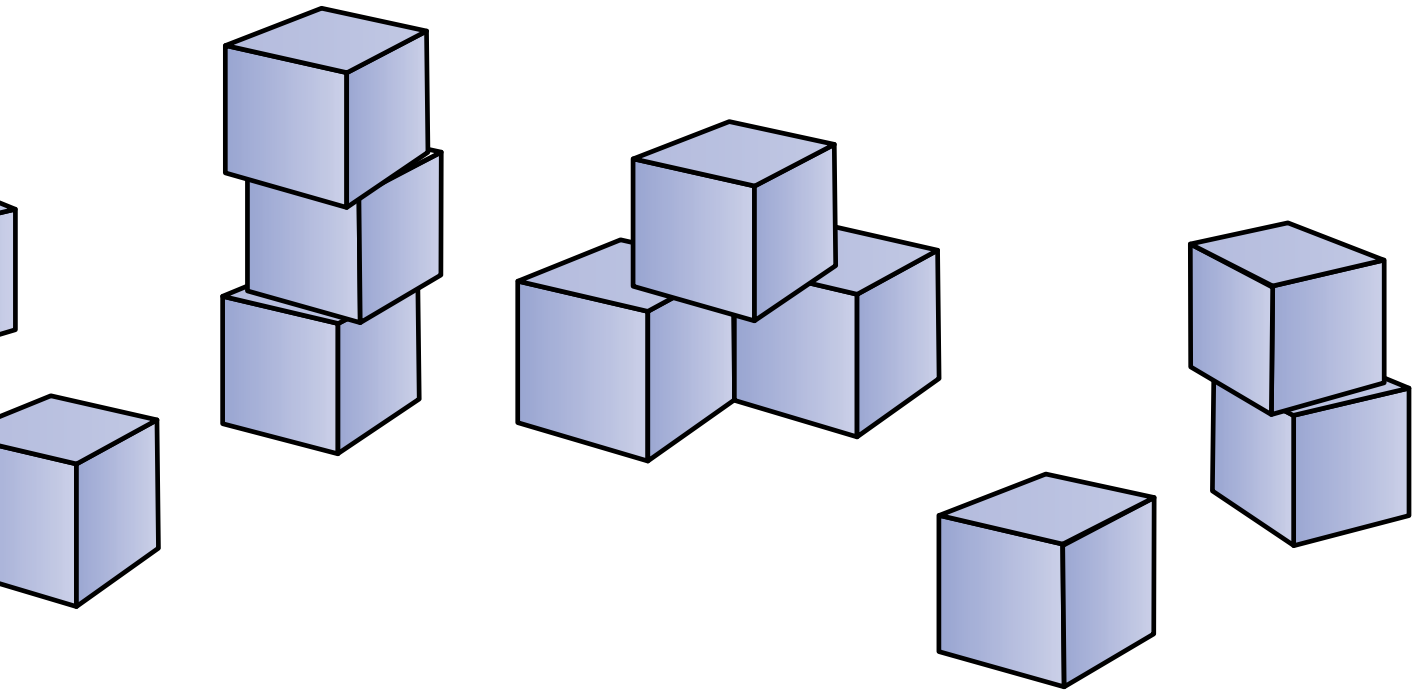
As amines are the important building blocks of more advanced solutions, formulators and customers require chemicals that are economical, scalable and effective.

The amines presented here are those most common, and most critical, to oil and gas production.



Chemical Components

Function	Chemistry/Recommended Products
Acid neutralizing corrosion inhibitors	Dimethylethanolamine (DMEOA)
Anti-foaming agent	Dimethylaminopropylamine (DMAPA)
Imidazoline	AMIX
Methacylate	Dimethylaminopropylamine (DMAPA)
Quats	Dimethylaminopropylamine (DMAPA)
	Dimethylethanolamine (DMEOA)
Phosphonate backbone	Diethylenetriamine (DETA)
	N-(2-aminoethyl)ethanolamine (AEEA)
	Polyetheramines
	Ethylenediamine
Phosphate enhancer	Polyetheramines
Shale inhibitors	Polyetheramines
	AMIX
Triazine	Ethylenediamine (EDA)
	Monomethylamines (MMA)
	Monoethanolamine (MEOA / MEA)
Triazine (Hydrophobic)	3-Methoxypropylamine (MOPA)



Introducing AMIX: Versatile, High-Performance Amine Blends

AMIX is our premium line of highly-active amine blends engineered for performance, flexibility, and cost-efficiency. Designed to meet the demands of modern oilfield applications, AMIX products deliver exceptional reactivity across a wide range of uses.

Whether you're formulating scale or shale inhibitors, synthesizing imidazolines or triazines, or exploring other amine-based chemistries, AMIX provides flexible and unique building blocks to scale your formulation. With our products, you don't have to compromise between performance and value.

Unlock the full potential of your formulations with AMIX.

AMIX 1000

A highly active ethylene amine blend designed to deliver both performance and versatility across a range of chemical formulations.

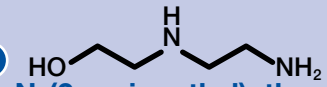
Benefits:

- **easy to neutralize** with standard acids
- engineered to serve as a **robust backbone for phosphonated amine scale inhibitors** and an effective **building block for imidazoline derivatives**
- can be used in **water treatment, corrosion inhibition,** and other specialty applications
- its **high activity** and **adaptable chemistry** make it an ideal choice to f**ormulate efficiently without sacrificing performance.**

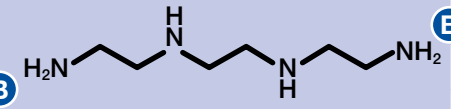
AMIX 1000 – A smart starting point for advanced amine-based formulations.

AMIX 1000

Production Site: Ludwigshafen, DE
Packaging: Isocontainer, 200kg drums
Application: SI building block

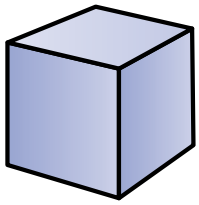
A 

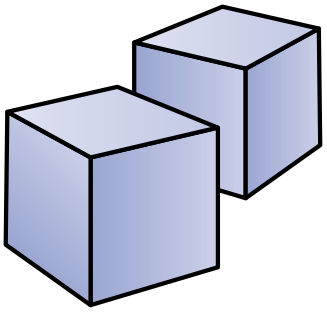
N-(2-aminoethyl)ethanolamine
- 1° & 2° amine
- Hydroxyl group
- Inhibitor app

B 

Triethylenetetramine
- 4 amine sites
- High reactivity

Component	Wt%
A AEEA	30 – 40%
B TETA	20 – 35%
Polyamide	25 – 40%
DEOA	≤ 6.5%
DETA	≤ 1.5%
Water	≤ 1%







AMIX A

A specialized piperazine blend offering a balanced mix of di- and tri-amines, providing exceptional utility across a wide range of oilfield applications.

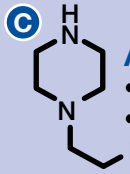
Benefits:

- its **unique composition** makes it a powerful building block for **imidazoline synthesis,** while also functioning effectively as a **stand-alone shale inhibitor** once neutralized with acid
- its **high reactivity** and **amine diversity** makes it an excellent **starting point for hydrate inhibitor formulations,** giving formulators the flexibility to tailor performance to specific operational needs

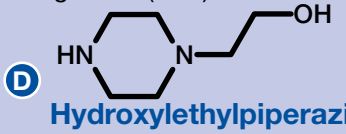
AMIX A – engineered for multifunctional performance and formulation freedom.

AMIX A

Production Site: Antwerp, DE
Packaging: Isocontainer, 200kg Drums
Application: Corrosion inhibitor building block (AEP)

C 

Aminoethylpiperazine
- 1°/ 2°/ 3° amine
- Inhibitor potential

D 

Hydroxylethylpiperazine
- Precipitate out

Component	Wt%
C AEP	50 – 80%
D HEP	5 – 20%
AEEA	≤ 25.0%
DETA	≤ 10.0%
Water	≤ 2.0%

AMIX DA5

A specialized tertiary hydroxyl amine blend tailored for use as a building block for acid neutralizing corrosion inhibitors via quaternization.

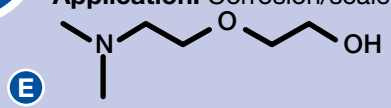
Benefits:

- built in nuetralization
- **hydrophobic head / hydrophilic tail**
- **affordable** price

AMIX DA5 – built to neutralize in the toughest environments.

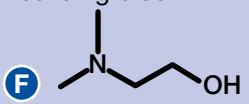
AMIX DA5

Production Site: Geismar, LA
Packaging: Bulk Truck
Application: Corrosion/scale inhibitor building block



E **Dimethylaminoethoxyethanol**

- Tertiary amines
- Hydroxyl group
- Inhibitor app



F **Dimethylethanolamine**

	Component	Wt%
E	Dimethylaminoe-thoxyethanol	60 – 80%
F	DMEOA	5 – 25%
	Ethylene glycol	≤ 8.0%
	Vinyloxyethanol	≤ 6.0%
	Water	≤ 2.0%

AMIX TE

A diluted triethanolamine blend that offers dependable performance across a wide range of oilfield applications.

Benefits:

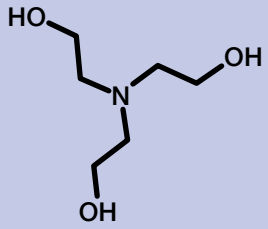
- **well-known** in the industry
- popular choice as a **building block for scale inhibitors and triazine synthesis**
- cost **effective**

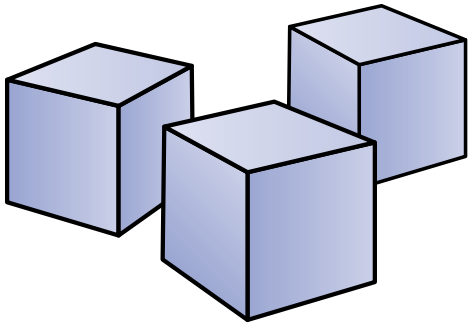
AMIX TE – simple and effective TEA.

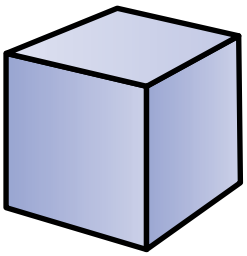
AMIX TE

Production Site: Ludwigshafen, DE (Alkanolamin-Fabrik)
Packaging: Isocontainer, 230kg drums
Application: Scale / H_2S / Corrosion inhibitor

- Diluted Triethanolamine (85% TEA or TEOA)





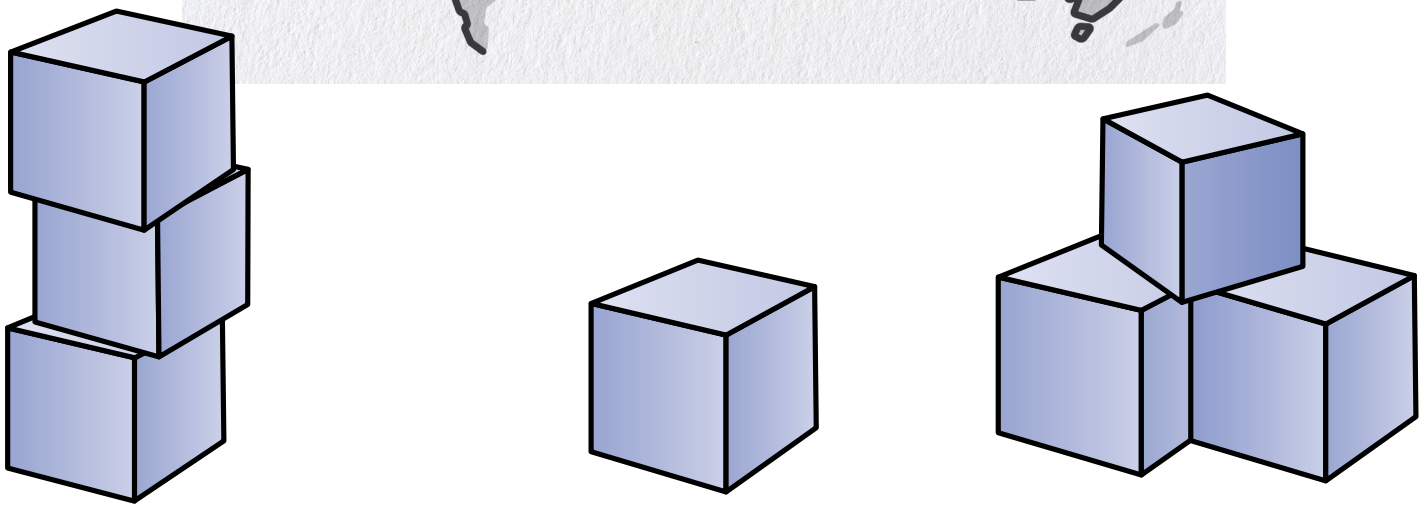




Supply Chain

BASF prioritizes amines that are widely producible, effective and efficient. Amines that are locally produced are more economical and readily available, allowing customers to operate with peace of mind. Our portfolio offerings can be locally stocked and are available in various packaging options.





For further information visit our website:
www.oilfield-chemicals.basf.com

Product availability may vary by region.

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