

Intermediates

Baxxodur®

Amines for Epoxy and Polyurea Applications



Your Competent Partner for Epoxy and Polyurea Applications

BASF develops, produces, and markets a comprehensive product portfolio of amines suitable for epoxy and polyurea applications.

Backward integration of most of the raw materials ensure great reliability of supply. Our technical teams constantly review and develop new products in response to the ever changing market demands and customer needs.

Our products are featured in many epoxy formulations. They perform as highly efficient curing agents for composites, coatings, sealants, etc. They are also used in polyurea applications for protective coatings in many industries such as automotive, infrastructure, and construction.

BASF Baxxodur® products offer the following advantages:

- Comprehensive portfolio
- Flexibility in formulation with various amine systems
- Provide a range of characteristics for various needs such as:
 - Reactivity
 - Hardness
 - Weatherability
 - Chemical resistance
 - And many more to meet formulators and end user requirements

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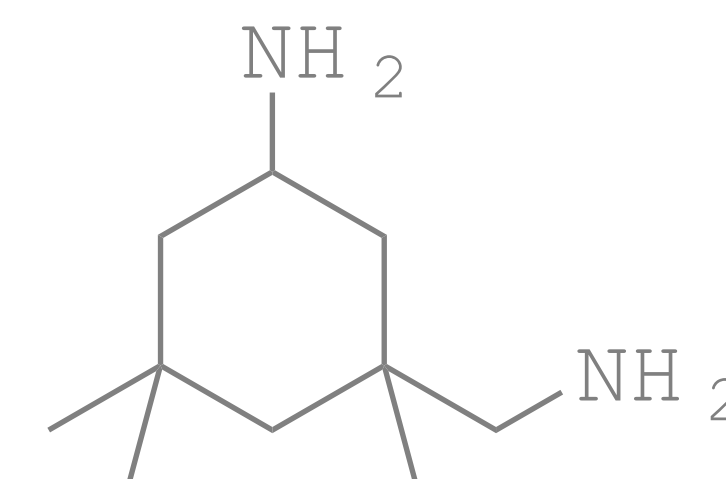
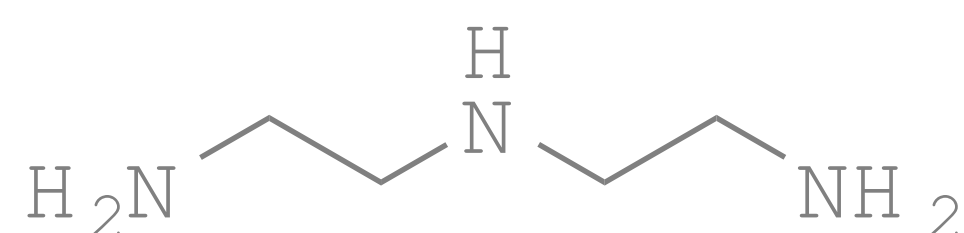
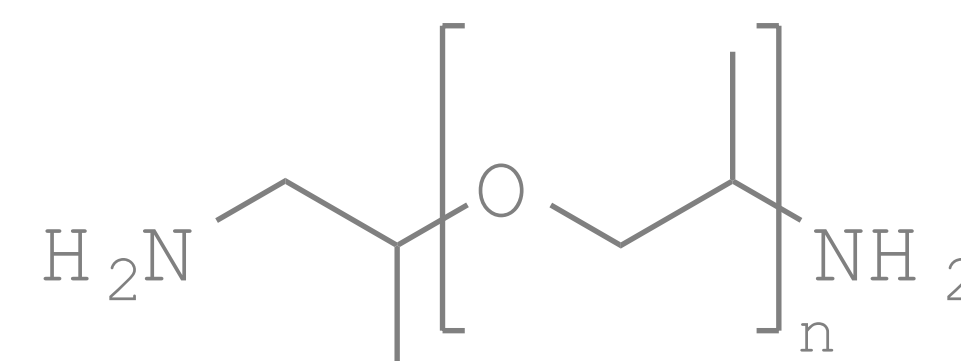
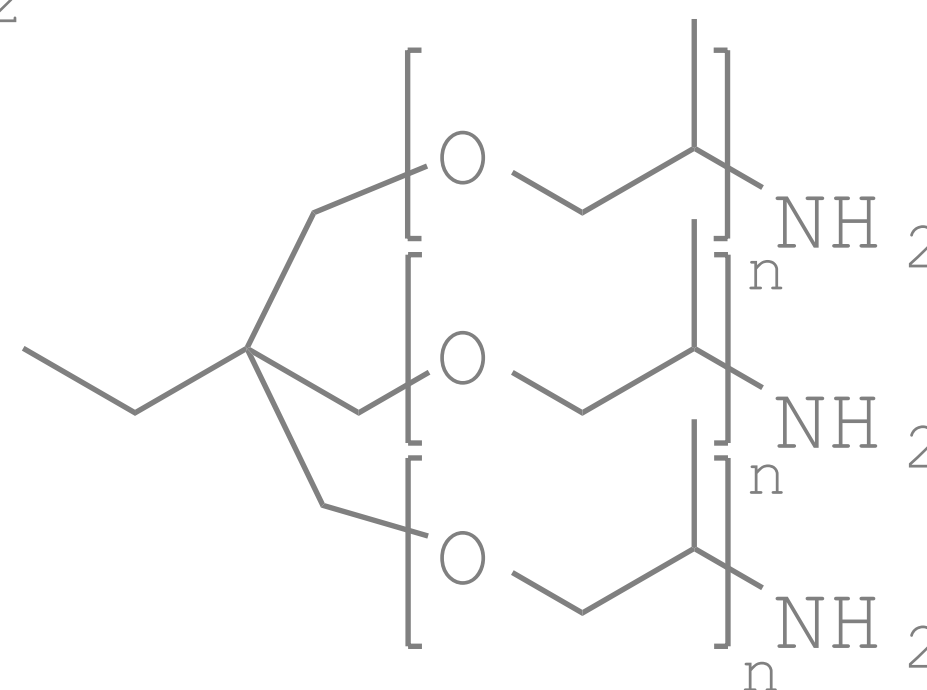
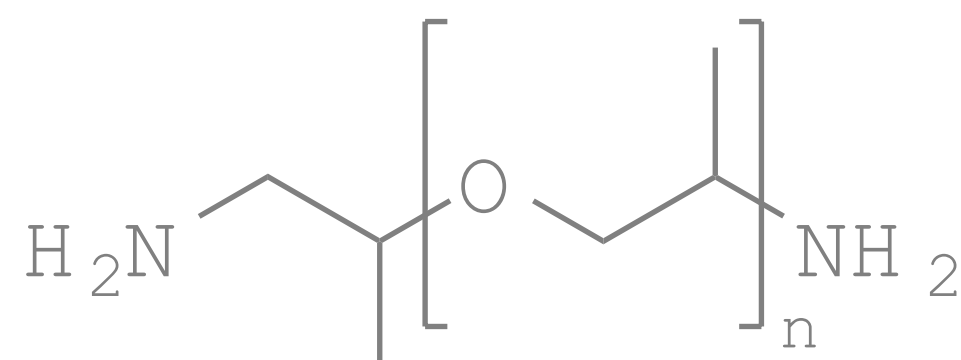
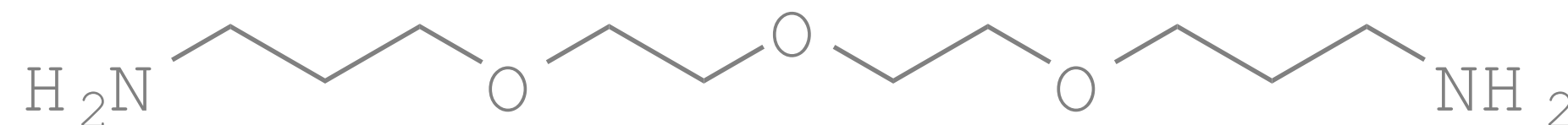
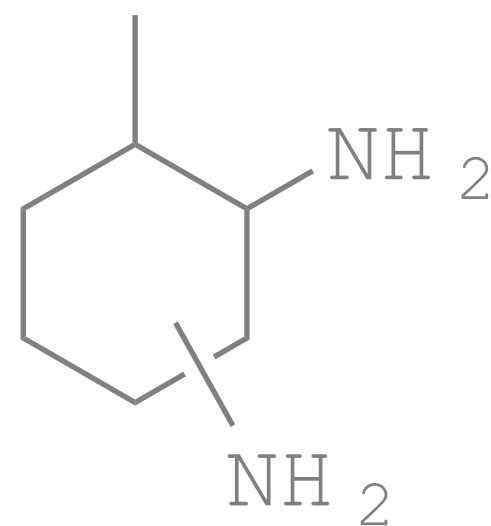
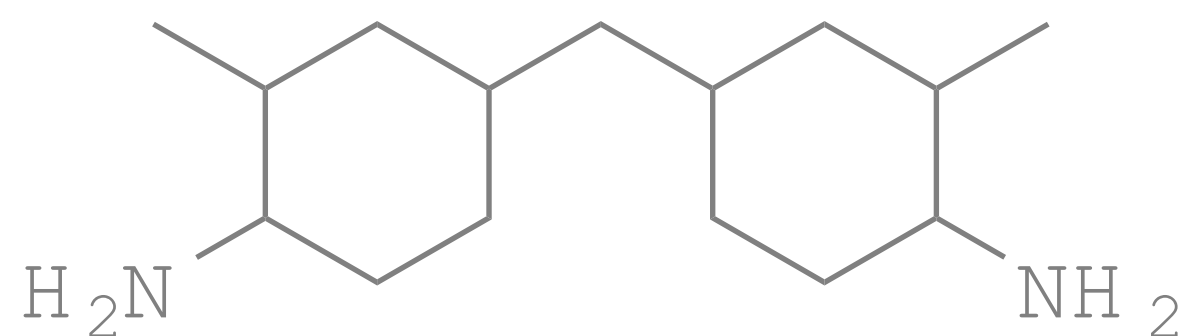
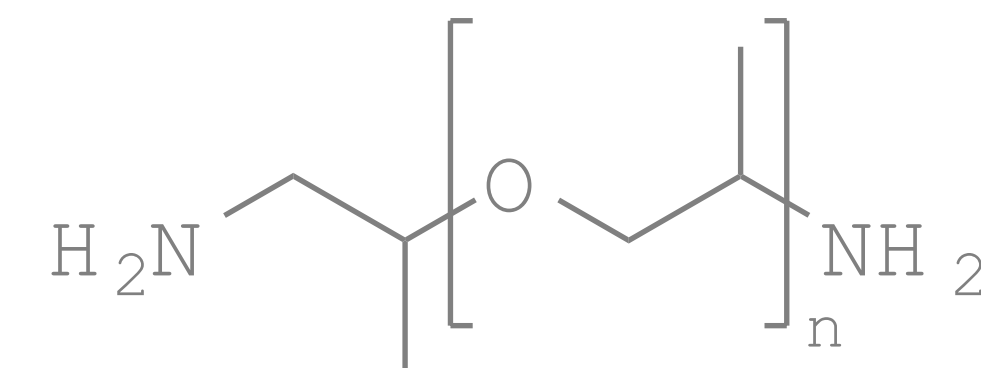
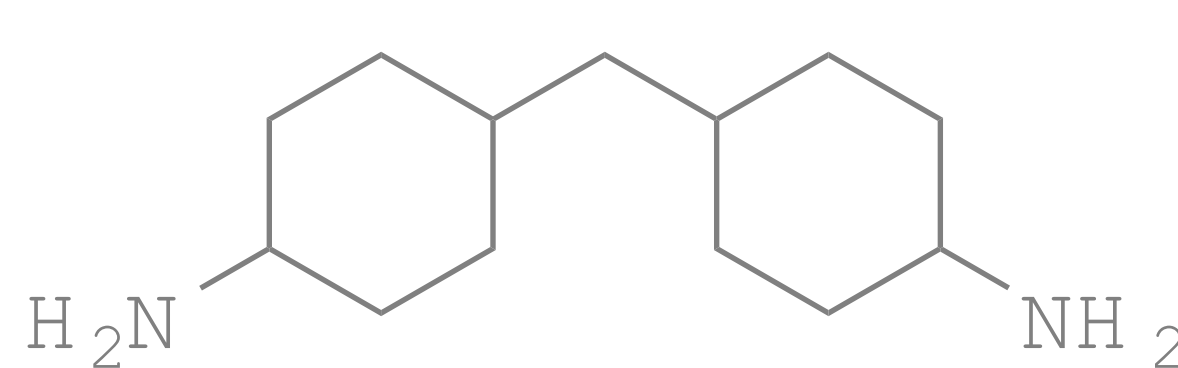
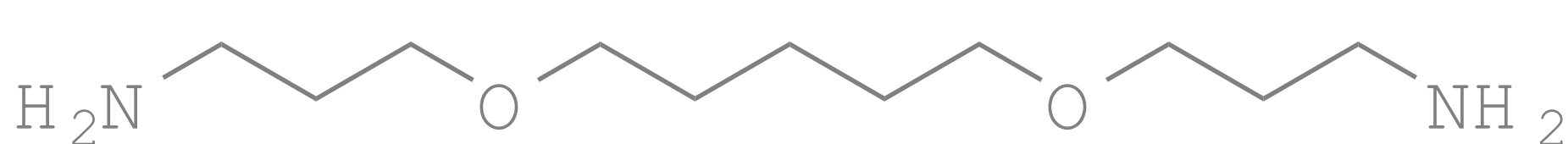
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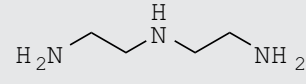
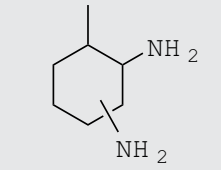
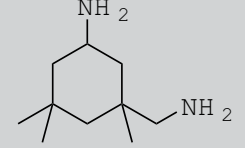
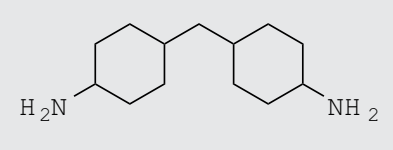
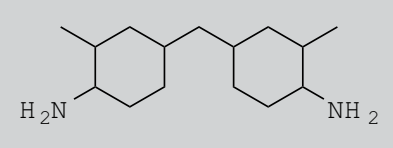
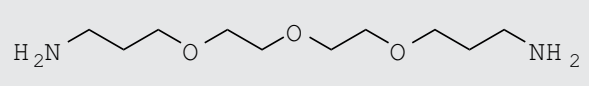
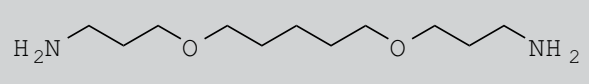
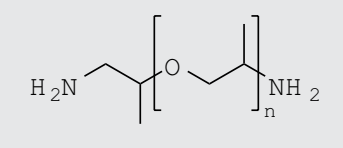
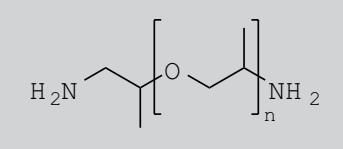
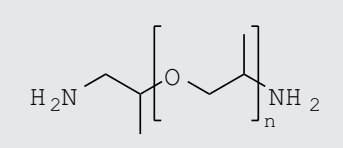
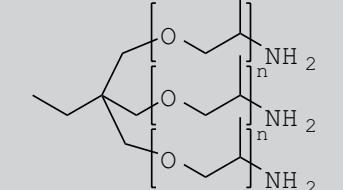
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Product	Chemical Name	CAS	Structure	Physical Properties										Applications										Benefits			
				Curing Agent		Amine/Resin					Cured Resin			Applications													
				Amine Equivalent Eq	Boiling Point [°C]	Mix Viscosity [mPa*s]	Open Time 23°C [min] ^b	Open Time 75°C [min] ^b	Gel Time 23°C [min] ^c	Gel Time 70°C [min] ^c	Tg [°C]	E-Modulus [MPa] ^d	Tensile Elongation [%] ^e	Impact Strength [kJ/m ²]	Polyurea	Epoxy Toughener	Grout	Coatings	Casting & Encapsulation	Composite Lamination	Laminates	Composites	Adhesives		Structural Adhesives	Flooring	Construction
Aliphatic Amines																											
DETA	Diethylenetriamine DETA	111-40-0		21	207	1630	31	3.5	280	15	135	2730	6.2	23													Fast curing; Ambient temperature activity
Baxxodur® EC 151				54.5	260	520	74	5.1	535	41	82	3060	7	71													Very low viscosity, low temperature activity, cold curing, long pot life, fast curing, excellent carbamation resistance, excellent surface, high toughness
Cycloaliphatic Amines																											
Baxxodur® EC 210	Methyl-diaminocyclohexane MCDA	13897-55-7 13897-56-8		33	210	1225	70	7.1	647	55	172	2810	6.6	20													Long pot life; Very low viscosity; Low amine hydrogen equivalent weight; Moderate curing speed.
Baxxodur® EC 201	Isophorone diamine IPDA	2855-13-2		43.5	247	1725	47	5.0	470	44	163	2690	7.8	39													High mechanical strength and temperature resistance; Excellent moisture and chemical resistance; Low color and good color stability.
Dicykan	4,4'-Diaminodicyclohexylmethane DC	1761-71-3		54	328	2780	50	4.5	551	37	172	2500	8.2	25													High temperature resistance; Good moisture and chemical resistance; Good adhesion on metal substrates; Good color stability; Long pot life.
Baxxodur® EC 331	3,3'-Dimethyl-4,4'-Diaminodicyclohexylmethane DMDC	6864-37-5		61	347	3480	95	8.5	997	67	179	2690	6.3	19													Excellent chemical, moisture and high temperature resistance; Good adhesion on metal substrates; Good color stability.
Etheramines																											
Baxxodur® EC 130	4,7,10-Trioxatridecane-1,13-diamine TTD	4246-51-9		56	148	510	61	4.4	505	21	75	2390	4.9	83													Excellent thermal shock resistance, adhesion and toughness; Good flexibility; Low color.
Baxxodur® EC 280	4,9-Dioxadodecane-1,12-diamine DODA	7300-34-7		52	298	490	57	4.0	519	23	84	2190	5.6	72													Excellent thermal shock resistance; Good adhesion and toughness; Very good flexibility; Low color.
Baxxodur® EC 301	Polyetheramine D 230	9046-10-0		61	> 200	570	193	12.0	1770	81	88	2850	5.0	76													Excellent adhesion and toughness; Good flexibility and thermal shock resistance; Low color; Long pot life.
Baxxodur® EC 302	Polyetheramine D 400	9046-10-0		107	232	490	350	19.0	4294	148	49	3020	2.8	91													Good adhesion, toughness, and thermal shock resistance; High impact strength; Long pot life.
Baxxodur® EC 303	Polyetheramine D 2000	9046-10-0		501	> 250	583	1055	145	-	1175	-	-	-	-													Excellent flexibility; Light color; Very long pot life.
Baxxodur® EC 310*	Polyetheramine T 403	39423-51-3		81	> 200	161	53	1937	72	89	-	5.2	59														Excellent adhesion; Good flexibility, toughness and thermal shock resistance; Low color; Long pot life.