

# DEAC

(Diethylaluminum chloride)

<b>Abbreviation:</b>	DEAC
<b>Formula:</b>	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> AlCl
<b>Molar Mass:</b>	120.56 g/mol
<b>CAS-Reg.-No.:</b>	96-10-6
<b>EINECS/ELINCS No.:</b>	202-477-2

**Specification:**

	<b>Value</b>	<b>unit</b>
Al content:	21.6 – 22.3 <sup>a</sup>	wt%
Cl content:	28.1 – 29.7	mole%
Composition of the hydrolysis gas:		
Ethane	98.5 – 100.0 <sup>b</sup>	mole%
n-Butane	0.0 – 1.5 <sup>b</sup>	mole%
Hydrogen	0.0 – 0.2 <sup>b</sup>	mole%

Notes: <sup>a</sup>Determined by titration of aqueous hydrolyzate.

<sup>b</sup>Calculated from gas chromatographic analysis of hydrocarbons and hydrogen obtained by hydrolysis.

**Technical Data:** (Values determined on representative samples or taken from literature)

Appearance:	Clear liquid at 20°C
Vapor pressure:	2.6 hPa at 60°C 8.3 hPa at 80°C 22.7 hPa at 100°C 54.5 hPa at 120°C
Freezing Point:	Below -70 °C

**REDWOP CHEMICALS PVT. LTD.**

Second Floor, Pearlplaza Complex, beside GT Sheth School,  
150 Feet Ring Rd, near KKV Hall, Rajkot, Gujarat 360005

Web: [www.redwop.net](http://www.redwop.net)  
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Density:	1.008 g/cm <sup>3</sup> at -20°C
	0.989 g/cm <sup>3</sup> at 0°C
	0.970 g/cm <sup>3</sup> at 20°C
	0.950 g/cm <sup>3</sup> at 40°C
Viscosity:	3.7 mPa.s at -20°C
	2.3 mPa.s at 0°C
	1.6 mPa.s at 20°C
	1.2 mPa.s at 40°C
Specific heat:	1.3 J/g – K at 25°C
Heat of vaporization:	183 KJ/kg at 1 bar
Heat of hydrolysis:	3814 kJ/kg at 25°C
Limit of thermal stability:	3 h/1 bar N <sub>2</sub> (approx. 170 °C *)

### Supply Form:

Diethylaluminum chloride is supplied undiluted or as a solution in an inert hydrocarbon in any concentration as agreed with the customer.

### Storage Stability:

The shelf life of our product is two years if stored under protective gas in sealed unopened original containers at a temperature less than 50°C. DEAC slowly decomposes at temperatures above ~ 174°C.

### Industrial Application:

DEAC is an aluminium alkyl used for Diels Alder reactions. Catalyst component for the production of polyolefins and synthetic rubber with Ziegler-Natta-catalysts. Ethylation agent.

**Packaging and Supply:-** For safe transportation supply in a special small Portable ASME pressure container as per IMDG guidelines..

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**Labeling:**

Classification & labeling according to current EU legislation. For further information please refer to our respective safety data sheet.

**Handling:**

Instructions on handling, transportation and necessary precautions to be taken are given in our safety data sheet. In general, when handling the product, the local appropriate regulations should be observed.

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Redwop, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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