

Technical Data Sheet

Triethylaluminium

Abbreviation: TEAL
Formula: $C_6H_{15}Al$
Molar Mass: 114.17g/mol
CAS-Reg.-No.: 97-93-8
EINECS-No.: 202-619-3

Specification:

Al-Content* min. 23.0 %m/m
TBA* max. 4.0 %m/m
TEA* min. 96.0 %m/m
ALH3* max. 0.05 %m/m
Aluminiumalkyls and ALH3 calculated from Alkyl- and
Hydride groups.

Typical Values:

TIBA max. 0.01 %m/m
TPA max. 0.01 %m/m
TMA max. 0.01 %m/m
Methane max. 0.01 %m/m
Ethene max. 0.05 %m/m
i-Butene max. 0.01 %m/m

Technical Data:

(Values determined on representative
samples or taken from literature)

State: clear colourless liquid at 20°C

Vapour Pressure: 1.0 hpa at 60°C

5.1 hpa at 80°C

16.8 hpa at 100°C

49.2 hpa at 120°C

Freezing Point: -50°C

Density: 0.864 g/cm³ at -20°C

0.848 g/cm³ at 0°C

0.834 g/cm³ at 20°C

0.819 g/cm³ at 40°C

Viscosity: 7.1 mPa.s at -20°C

4.0 mPa.s at 0°C

Specific Heat: 2.09J/g-K at 25°C

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Heat of Vaporization: 533.0 KJ/KG at 1 bar

Heat of Hydrolysis: 4636.0 KJ/kg at 25°C

Limit of thermal stability: approx. 120°C at 3h/1bar N₂**

**Heating the material to the aforesaid temperature over 3h in open systems (under nitrogen) initial symptoms of decomposition can be observed.

Supply Form:

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

Industrial Application:

Catalyst component for the
production of polyolefins and synthetic rubbers. Ethylating agent.

Packaging:

for safe transportation special containers of
various capacities from 1-approx. 17000kg are available. All
containers conform to the current valid transport regulations.

Labeling:

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

Handling:

detailed instructions on handling are given in our
brochure. In general, when handling this product, the local
appropriate regulations have to be observed

This information contained in this leaflet is intended to advise and is given to the best
Of our knowledge. It is given without obligation. However, since owing to the
Multiplicity of possible working methods and applications we cannot accept any
responsibility, also regarding any third party patent rights.