

TERT.-BUTANOL AZEOTROPIC

TBA, TERT.-BUTYLALCOHOL; 2-METHYL-2-PROPANOL

CAS NO.

75-65-0

APPLICATIONS & PROPERTIES

Tert.-Butanol is a pure C4 alcohol which is especially suitable for manufacturing of organic peroxides.

PRODUCT SPECIFIC FEATURE

We offer TBA in two different qualities (pure and azeotropic).

Pure - TBA content > 99.65%

Azeotropic - TBA content \geq 87.25%

APPLICATION FIELDS

For use in applications such as organic peroxides, antioxidants or pharmaceuticals.

TRANSPORT & LOGISTICS

The product is available in tank trucks, tank containers and barrels.

SPECIFICATION

Property	Value	Unit	Method
Content of TBA	min. 87.25	mass-%	AA-0785-04-012 ^{*)}
sec.-Butanol	max. 0.25	mass-%	AA-0785-04-012 ^{*)}
Water	12.1 \pm 0.5	mass-%	AA-0785-04-013 ^{*)}
Vaporation residue	max. 1	mg/100 ml	DIN 53 172
C4-C12 hydrocarbons	max. 0.05	mass-%	AA-0785-04-012 ^{*)}
Acid number	max. 0.01	mg KOH/g	DIN EN ISO 2114
Colour number	max. 10	–	DIN ISO 6271

*) inhouse-method

*) Karl-Fischer-titration, volumetric determination

PHYSICAL DATA (LITERATURE DATA)

Property	Value(ca.)	Unit
Molecular mass C ₄ H ₁₀ O	74.12	–
Relative density d ₄ ³⁰	0.803	g/cm ³
Solidification point	- 4.4	°C
Boiling point a 1013 mbar	79.9	°C
Refractive index n _D ³⁰	1.38	–
Specific heat at 30 °C	3.19	kJ/kg K
Heat of vaporisation at b.p.	577.8	kJ/kg
Evaporation number (Ether = 1)	11	–
Viscosity at 30 °C	3.6	mPa s
Dielectric constant at 30 °C	14.0	–

VAPOUR Pressure (at 20°C)

°C	10	20	30	40	50	60
TBA/H ₂ O-azeotrope	23.4	46.4	86.7	153.9	260.9	424.9

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