

Product information

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 ¹⁾
sec.-Butanol	max. 0.25	mass-%	AA-0785-04-012 ¹⁾
Water	12.1 \pm 0.5	mass-%	AA-0785-04-013 ²⁾
Vaporation residue	max. 1	mg/100 ml	DIN 53 172
C4-C12 hydrocarbons	max. 0.05	mass-%	AA-0785-04-012 ¹⁾
Acid number	max. 0.01	mg KOH/g	DIN EN ISO 2114
Colour number	max. 10	-	DIN ISO 6271

¹⁾) inhouse-method

²⁾) 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 ³⁰ ₄	0.803	g/cm ³
Solidification point	- 4.4	°C
Boiling point a 1013 mbar	79.9	°C
Refractive index n ³⁰ ₀	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

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Oxeno GmbH & Co. KG
Paul-Baumann-Straße 1
45772 Marl
C4-chemicals@evonik.com
www.evonik.com/c4-chemicals