



Product Information

20.07.2012

Diethanolamine

Composition

Diethanolamine

Product data (specification)

Property	Value	Unit	Test method
Appearance at 20 °C	solid, crystalline	-	visual
Colour number (APHA) (in the melt)	≤ 10	mg Pt/l	DIN EN 1557
Water	≤ 0.2	% by mass	DIN EN 13267 modif.
Monoethanolamine	≤ 0.3	% by mass	GC
Diethanolamine	≥ 99.0	% by mass	GC
Triethanolamine	≤ 1.0	% by mass	GC

General product description

Property	Value	Unit	Test method
Molar mass (C ₄ H ₁₁ NO ₂)	105.14	g/mol	-
Density at 40 °C	1.0838	g/ml	ASTM D 3505
Refractive index n _{40/D}	1.4720	-	ASTM D 1747
Boiling point at 1,013 hPa	270.3 (Decomposition)	°C	-
Setting point	27.8	°C	DIN ISO 3841
Flash point	about 177	°C	EN 22719
Ignition temperature	about 370	°C	DIN 51794
Specific heat at 50 °C	2.47	kJ/kg K	-
Heat of vaporization (at boiling point under 1,013 hPa)	616	kJ/kg	-

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 Sitz der Gesellschaft: Hamburg Registergericht: Amtsgericht Hamburg HRB 78475



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Vapour pressure

°C	126.7	176.7	195.9	215.4	251.0	269.5
hPa	5	50	100	200	600	1,000

Viscosity (about)

°C	30	40	60	80	100
mPa s	492	196	58.4	22.9	11.2

Transport and packaging

Road tankers, railway tankers, about 200-l iron drums

Storage

Stainless steel vessels (Steel No. 1.4541 or 1.4571) or iron vessels at about 35 °C; no light metals and no copper

Data on material safety, as well as transport classes and data on toxicology, can be obtained from the material data sheet.

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