PanReac AppliChem ITW Reagents

Los Alquimistas

Specification

TEMED **A1148**

Synonym	N,N,N',N'-Tetramethylethylenediamine, TMEDA
state of matter	Liquid
n 20°C/D	1.417
Boiling point	121°C
Formula	$C_6H_{16}N_2$
M	116.21 g/mol
CAS-No.:	110-18-9
HS-No.:	29212900
EC-No.:	203-744-6
Storage:	2-8°C
LGK:	3
Disposal:	5
R:	11-20/22-34
S:	16-26-36/37/39-45
	harmful, highly flammable, corrosive
Class / PG:	3/II
UN-No.	UN2372
WGK:	1
Specification	
Assay (GC)	min. 99 %
Identity (IR)	passes test
Water (K.F.)	max. 1 %

Literature

(1) Needles, H.L. (1970) *Anal. Biochem.* **35**, 533-537 Effect of solution components on large-pore polyacrylamide gel formation.

(2) Ogden, R.C. & Adams, D.A. (1987) *Methods Enzymol.* **152**, 61-87 Electrophoresis in agarose and acrylamide gels.

(3) Gomes, A.V. & Barnes, J.A. (1998) *Anal. Biochem.* **260**, 106-108 Gel electrophoresis of mini gels.

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Comment

TEMED was introduced as an enhancer of the polymersitation (cross-linking) of acrylamide and bisacrylamide in gel electrophoresis. It catalysis the formation of free radicals of the initiator of the polymerisation, ammonium persulfate. If gels are degased to remove oxygen, add the TEMED after degasing. The working concentration is 50 µl / 100 ml of gel solution. TEMED is stable (< two years), if it is protected from taking up water.
Caution: TEMED is harmful. Handle under a chemical fume hood. Do not breathe fumes!