

Specification

β-Mercaptoethanol Molecular biology grade

A1108

Refractive Index:	n ₂₀ /D 1.5006
Physical Description:	Liquid
Product Code:	A1108
Product Name:	β-Mercaptoethanol Molecular biology grade
Specifications:	DNases/RNases/Proteases: not detectable Assay (GC): min. 99 % Water (K.F.): max. 0.5 %
Hazard pictograms	
UN:	2966
Class/PG:	6.1/II
ADR:	6.1/II
IMDG:	6.1/II
IATA:	6.1/II
WGK:	3
Storage:	2-8°C
Signal Word:	Danger
GHS Symbols:	GHS05

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	GHS06 GHS08 GHS09
H Phrases:	H301+H331 H310 H315 H317 H318 H373 H410
P Phrases:	P260 P301+P310 P305+P351+P338 P321 P330 P361+P364 P405 P501
Molecular Formula:	C ₂ H ₆ OS
M:	78.13 g/mol
CAS:	60-24-2
EINECS:	200-464-6
CS:	29309098
Comment	β-Mercaptoethanol is used as a reducing agent to prevent the oxidation of proteins (working concentration 5 - 20 mM) or to reduce disulfide bridges in proteins. Very often, β-mercaptoethanol is replaced by DTT or DTE (same concentration or 1 - 5 mM), which is less toxic, less smelling and more effective. The concentration of pure β-mercaptoethanol is 14.3 M.

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Bibliography

(1) Keutmann, H.T. & Potts, I.T. (1969) *Anal. Biochem.* **29**, 175-185 Improved recovery of methionine after acid hydrolysis using β-mercaptoethanol. (2) Roth, M. (1971) *Anal. Chem.* **43**, 880-882 Fluorescence reaction of amino acids.

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