

Specification

Dansyl Chloride *BioChemica*

A1119

Synonym	5-Dimethylaminonaphthalene-1-Sulfonyl Chloride
state of matter	Solid
Solubility (20°C)	10 g/L (H ₂ O)
Melting point	70°C
Formula	C ₁₂ H ₁₂ ClNO ₂ S
M	269.75 g/mol
CAS-No.:	605-65-2
HS-No.:	29214900
EC-No.:	210-092-6
Storage:	2-8°C
LGK:	8 B
Disposal:	11
R:	34
S:	26-36/37/39-45
	corrosive
Class / PG:	8/II
UN-No.	UN3261
WGK:	3
Specification	
Assay (HPLC)	min. 98 %
Literature (1) Seiler, N. (1970) <i>Methods Biochem. Anal.</i> 18, 259-337 Use of Dansyl reaction in biochemical analysis. (2) Gray, W.R. (1972) <i>Methods Enzymol.</i> 25, 121-138 End-group analysis using Dansyl chloride. (3) Vera, J.C. <i>et al.</i> (1988) <i>Anal. Biochem.</i> 174, 38-45 Purification, amino terminal analysis and peptide mapping of proteins after <i>in situ</i> postelectrophoretic fluorescence labeling.	

Specification

Dansyl Chloride *BioChemica*

A1119

Comment

Dansyl chloride reacts with different basis, like primary and secondary amines of the terminal amino groups from peptides and proteins and with the reactive side chains of proteins (cysteine > tyrosine > lysine > histidine). Since dansyl chloride reacts just with the free base (R-NH_2), the labeling has to be performed at alkaline pH values. At a concentration of 5 mM dansyl chloride, most amino acids will be labeled at pH 9.8 (2).

