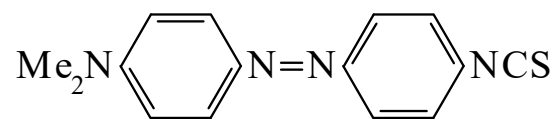




>>Entry Name: 4-[(4-Isothiocyanatophenyl)azo]-N,N-dimethylbenzenamine, 9CI

Synonym(s): 4-(Dimethylamino)azobenzene-4'-isothiocyanate. 4-Dimethylamino-4'-isothiocyanatoazobenzene. DABITC



CAS Registry Number: 7612-98-8

Molecular Formula: C₁₅H₁₄N₄S

Molecular Weight: 282.368

Accurate Mass: 282.093916

Percentage Composition: C 63.80%; H 5.00%; N 19.84%; S 11.36%

Use/Importance: Reagent for amino acid sequencing

Physical Description: Orange leaflets (Me₂CO)

Melting Point: Mp 171-172°

Aldrich: 31780-2

Fluka: 39065

Sigma: D8775

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 549B, (*nmr*)

Martvon, A. *et al.*, *Coll. Czech. Chem. Comm.*, 1969, **34**, 3912, (*synth, ir, uv*)

Chang, J.Y. *et al.*, *Biochem. J.*, 1976, **153**, 607, (*use*)

Chang, J.Y. *et al.*, *J. Chromatogr.*, 1977, **132**, 303, (*use*)

Wittmann-Leibold, B. *et al.*, *FEBS Lett.*, 1978, **93**, 205; 1979, **101**, 157; **108**, 69; 75, (*use*)

Liu, W. *et al.*, *Anal. Biochem.*, 1982, **127**, 426, (*synth*)