



>>Entry Name: 2,2'-Azobis[2-methylpropanimidamide], 9CI

Synonym(s): 2,2'-Azobis[2-methylpropionamidine], 8CI. 2,2'-Azobisisobutyramidine. 2,2'-Diguanyl-2,2'-azobispropane. V 50

CAS Registry Number: 13217-66-8

Related CAS Registry Numbers(s): 4139-50-8 15453-05-1 25327-62-2 79246-17-6 79629-13-3 124088-65-9 150076-19-0

HN=C(NH2)C(CH3)2N=NC(CH3)2C(NH2)=NH

Molecular Formula: C₈H₁₈N₆

Molecular Weight: 198.27

Accurate Mass: 198.159294

Percentage Composition: C 48.46%; H 9.15%; N 42.39%

Use/Importance: Used as azo polym. initiator through formn. of free radicals on mild thermal dec. or uv excitation

Physical Description: Cryst. (MeOH)

Melting Point: Mp 148° (139°) (dec.)

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 2997-92-4

Physical Description: Cryst. (H₂O or Me₂CO aq.)

Melting Point: Mp 173-176° (dec.)

Solubility: V. sol. H₂O

Aldrich: 44091-4

Other: Wako

>>Derivative: Dinitrate

Physical Description: Cryst. (EtOH)

Melting Point: Mp 162° (dec.)

References:

U.S. Pat., 1952, 2 599 299; *CA*, **47**, 4359g, (*synth, derivs, use*)

U.S. Pat., 1957, 2 810 702; *CA*, **52**, 19252h, (*synth, use*)

Haines, R.M. *et al.*, *J.C.S.*, 1958, 3221-3222, (*synth*)

Neumann, R.C. *et al.*, *J.A.C.S.*, 1962, **84**, 1506-1507, (*pmr*)

Hammond, G.S. *et al.*, *J.A.C.S.*, 1963, **85**, 1501-1508, (*synth, ir, uv, derivs*)

Ito, K., *J. Polym. Sci., Polym. Chem. Ed.*, 1973, **11**, 1673-1678, (*props*)

Ger. Pat., 1974, 2 242 520; *CA*, **81**, 106323v, (*synth*)