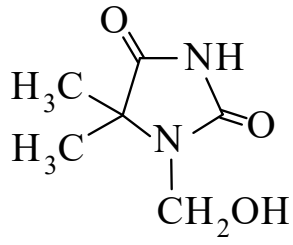
>>**Entry Name: 1-(Hydroxymethyl)-5,5-dimethyl-2,4-imidazolidinedione,** 9CI

Synonym(s): 1-(Hydroxymethyl)-5,5-dimethylhydantoin, 8CI. Monomethyloldimethylhydantoin. Methylol dimethylhydantoin. MDMH



CAS Registry Number: 116-25-6

Related CAS Registry Numbers(s): 16228-00-5 27636-82-4

Molecular Formula: $C_6H_{10}N_2O_3$

Molecular Weight: 158.157

Accurate Mass: 158.069143

Percentage Composition: C 45.57%; H 6.37%; N 17.71%; O 30.35%

Use/Importance: Used as a preservative in cosmetic preps. The polymeric resin is used in hair lacquers. Constit. of epoxyresins with high strength

Physical Description: Cryst.

Melting Point: Mp 110-117° (100°)

Solubility: Sol. H_2O

Hazard & Toxicity: Irritant

Rare Chemicals Library: S36105-4

References:

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Wilson, C.H., *CA*, 1977, **87**, 189289m, *(detn, use)*

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Japan. Pat., 1985, 60 231 736; *CA*, **104**, 187749, *(use)*

Katritzky, A.R. *et al.*, *Magn. Reson. Chem.*, 1988, **26**, 129, *(cmr)*

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