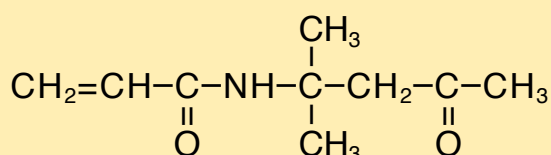


DIACETONE ACRYLAMIDE (DAAM)

Waterborne coating dryable by crosslinking at room temperature.



DIACETONE ACRYLAMIDE

CASNo. : 2873-97-4
T S C A : 2873-97-4
EINECS : 220-713-2
E N C S : 2-1024

Features

- Diacetone acrylamide readily polymerizes and forms copolymers with a wide variety of comonomers .1)
- Diacetone acrylamide reacts with ketone group of adipic acid dihydrazide at normal temperature.
- Polydiacetone acrylamide has high

*Bibliography

- 1) L.E.Coleman et al.,J.Polymer Sci.,Part A,3 1601[1965]
- 2) Y.Takano.Kobunshi Kako,20,680[1971]

Applications

- Waterborne coatings (room temperature crosslinkable)
- Textile treatment
- Paper treatment
- Photosensitive resins
- Hairsprays
- Adhesives
- Crosslinking agents
- Resin modifiers

Properties

- Appearance White to slightly yellowish flake powder
- Formula $\text{C}_9\text{H}_{15}\text{NO}_2$
- Mol.weight 169.23
- Specific Gravity(60°C) 0.998
- Melting Point 56°C
- Boiling Point 120°C/8mmHg
- Solubility in Water in Organic Solvents >100g/100g H₂O Miscible
- Tg (homo-polymer) 77°C (DSC)
- Viscosity (60°C) 17.9mPa.s

Copolymerization¹⁾

M ₁	M ₂	r ₁	r ₂	Q ₁	e ₁	Q ₂	e ₂
Styrene	Diacetone Acrylamide	1.77 ±0.08	0.49 ±0.06	1.00	-0.80	0.42	-0.42
Methylmeth-Acrylate	Diacetone Acrylamide	1.68 ±0.06	0.57 ±0.03	0.74	0.04	0.41	-0.02

Packing

- 20kg cardboard box