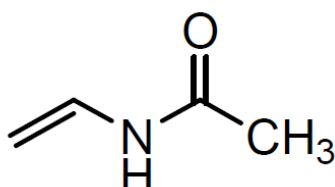


N-vinylacetamide [NVA]

Non-ionic vinyl monomer with solubility in water and various solvents.



Chemical Structure of NVA

Chemical Formula: C₄H₇NO
 Molecular Weight: 85.1
 CAS No.: 5202-78-8
 ENCS (Japan): (2)-3701
 TSCA: Listed in Inventory
 REACH: Registered

【 Properties 】

- NVA undergoes radical polymerization.
- No polymerization inhibitor added in product
- Water-soluble and soluble in various solvents and liquid monomers.

【 Physical properties 】

Appearance: White to pale-yellowish solid
 Melting point: 54 degree C
 Boiling point: 96 degree C, at 10mmHg
 Specific gravity: 1.05 at 20 degree C /solids, 0.946 at 55 degree C /liquids

【 Solubility of NVA in various solvents and monomers 】

Solvents, Monomers	Temperature (degreeC)			Amount of NVA (grams) dissolved in 100grams of solvents/monomers.
	10	25	40	
Water		880		
Ethyl alcohol	140	240	500	
Acetone	110	270	520	
Toluene	20	90	300	
Ethylacetate	70	140	340	
Stylene		80		
Methylmethacrylate		110		
Methylacrylate		160		
Vinylacetate		120		
N,N-dimethylacrylamide		220		

【 Reactivity with other monomers 】

NVA is classified as a
 “Non-conjugated vinyl monomer”.

NVA has similar Q-e value to N-vinylpyrrolidone.

Reaction ratio depends on species of solvents.

Monomers	Q value	e value
NVA	0.16	-1.57
N-vinylpyrrolidone	0.14	-1.14

【 Inquiries 】

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