

ACN (Acrylonitrile)

1. Application

1) Monomer for ABS and SAN

2. Physical Properties

No	Items	Unit	Specification	Remarks
1	Molecular formula		CH ₂ =CHCN	
2	Molecular weight		53.06	
3	Boiling point	°C	77.3	
4	Melting point	°C	5 ± 0.05	@ 760 mm Hg
5	Specific gravity	g/ml	0.8004	@ 20°C
6	Vapor density	g/m ³	1.83	@ 25°C
7	Critical temp	°C	246	Air = 1.0
8	Critical press	atm	34.9	
9	Ignition point	°C	481	
10	Flashing point	°C	0	
11	Explosion limit	vol %	3 ~ 17	In air
12	Combustion heat	kcal/mol	420.8	@ 25°C, liquid
13	Vaporizing heat	kcal/mol	7.8	@ 77°C
14	Polymerizing heat	kcal/mol	17.3 ± 5	
15	Solubility	wt %	7.3	@ 20°C Water

3. Specification

No	Items	Unit	Specification	Remarks
1	Purity	wt %	99.5 ↑	
2	Color , APHA	-	10 ↓	@ 25 °C
3	Acetone	ppm	100 ↓	
4	Water, %	wt %	0.5 ↓	
5	Acetaldehydes	ppm	20 ↓	
6	Acetonitrile	ppm	100 ↓	
7	HCN	ppm	5 ↓	
8	Inhibitor(MEHQ)	ppm	35 ↓	
9	Specific Gravity	-	0.799 ~ 0.802	@ 25°C/15.5°C

Aydin Cure

Zafer Mah. 185. Sokak B1 Blok No:4B K:39 D:514 Esenyurt / İSTANBUL Tel: +90 212 876 89 69

Avcılar V.D.: 147 072 63 73 Mersis No: 0147072637300001

www.AydinCure.com

info@AydinCure.com