

Technical information

ALPHA METHYLSTYRENE DIMER

Synonyms:	AMS Dimer, AMSD, Mixture of 2,4 -diphenyl-4-methyl-1-pentene and 2,4-diphenyl-4methyl-2-pentene		
CAS number:	6362-80-7	EINECS number:	228-846-8
Formula:	C ₁₈ H ₂₀	Molecular Weight:	236.36
HTS number:	29029080		

SPECIFICATION

Appearance	colorless liquid
Color HU	20 max.
Purity as unsaturated dimers (mass %)	98.0 min.
Unsaturated dimers content (mass %)	
- substituted 1-pentene	93 ± 1
- substituted 2-pentene	7 ± 1
Saturated dimer (mass %)	1.0 max.
AMS monomer (mass %)	0.5 max.

PROPERTIES

Odor	odorless
Density	0.99 kg/l
Boiling point	300 - 320 °C at 760 mm Hg
Flash Point	> 110 °C
Refractive Index	1.5690

PACKING

200 kg drums

HEALTH & SAFETY, SHIPPING

Classification	X _i – irritant
Codes / markings	R 36/37 S 26



APPLICATIONS

- environmentally friendly – no mercaptan odor – chain transfer agent, controlling molecular weight distribution and flow properties in the manufacture of:
 - high impact, general purpose and expandable polystyrene, ABS and SAN resins, giving good crack resistance and low temperature properties
 - rubber reinforced styrene resin, to obtain good melt flow and odor free product
- * *for detailed data on the benefits of AMSD in polymerizations see our leaflet 'AMSD as chain length regulator' (37360, 8 pages)*
- AMSD is also used as a scorch inhibitor in PE crosslinking (EP 0453204B1)

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