

PCS polycarbodihydridosilane

PARAMETER	UNIT	VALUE	REFERENCES
GENERAL			
Common name	-	polycarbodihydridosilane, hydridopolycarbosilane	
Acronym	-	PCS, HPCS	
CAS number	-	74056-94-3	
Linear formula		$(\text{CH}_4\text{Si})_n$	
PHYSICAL PROPERTIES			
Density at 20°C	g cm ⁻³	0.95	
Refractive index, 20°C	-	1.509	
FLAMMABILITY			
Flash point	°C	26	
TOXICITY			
HMIS: Health, Flammability, Reactivity rating	-	0/3/0	
PROCESSING			
Applications	-	silicon carbide precursor, wear coating and sealer coating for ceramic composites and precursor for porous composites for high-temperature filters and catalysts	