



PTAA

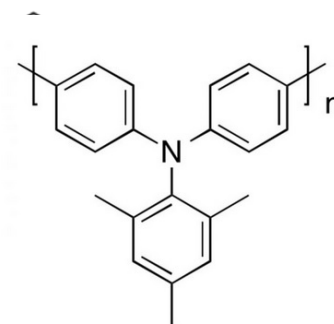
TECHNICAL DATA SHEET [TDS]

SECTION 1

Identifiers and Synonyms

Product Name	PTAA
Reference	SOL2426
Chemical Name	Poly[bis(4-phenyl)(2,4,6-trimethylphenyl)amine]
CAS Number	1333317-99-9
Synonyms	PTAA, Poly-TPD, Poly(NPD)
Molecular Formula	$(C_{21}H_{19}N)_n$
Molecular Weight	N/A
Appearance	Pale yellow / powder

Structure



SECTION 2

Optoelectronic Properties

Property	Value
HOMO	5,25 eV
LUMO	2,30 eV
Absorption λ_{max}	Not available (N/A)
Emission λ_{max}	Not available (N/A)

SECTION 3

Thermal and Physical Properties

Property	Value
Melting Point	N/A
Color	Pale yellow / powder
Texture	Powder
Solubility	THF, Toluene, oDCB

SECTION 4

Storage & Handling

- Store in dark, dry environment at 2–8 °C.
- Keep under inert atmosphere; avoid prolonged air exposure.
- Use gloves and mask; prepare solutions in fume hood.

SECTION 5

Applications

- Hole-transport layer (HTL) in perovskite and organic solar cells.
- Hole-injection/transport layer in OLEDs and organic photodetectors.
- Electroluminescent devices requiring high mobility and thermal stability.

SECTION 6

Safety & Transport

- **Hazard Classification:** See SDS for details; avoid inhalation and skin contact.
- **Transport:** Non-regulated; pack in sealed, labeled containers.
- **Disposal:** Follow local regulations for polymer and solvent waste.