**PPA (Phenyolphosphonic acid)**

Organic phosphorous compound containing two characteristic functional groups.

PPA was designed by our predominant organic synthesis technology, which has a phenyl-phosphorous direct bond. It shows excellent thermal stability. And two characteristic functional groups works as a good surface modifier.

Applications:
- Surface modifier for inorganic materials
- Plastic resin modifier
- Flame retardant for plastic fibers and resins
- Dispersant
- Catalyst
- etc

**Properties**

- **Appearance**: White crystalline powder
- **Melting point**: 159 – 164°C
- **P content**: 20%
- **pH**: 1 – 3
- **Bulk density**: 0.5 g/ml
- **Particle size D50**: 40 μm
- **pka**: pka1 = 2.2, pka2 = 7.2

PKA1: Benzoic acid < PPA < Benzenesulfonic acid

- **Decomposition temperature**: Start 176°C, 5% weight loss 276°C

**Solubility**

- **H₂O**: 47g/100g
- **Methanol**: >100g/100g
- **Ethanol**: >100g/100g
- **DMF**: >100g/100g
- **Acetone**: 56g/100g
- **OBD**: <10g/100g
- **MIBK**: 2g/100g
- **Toluene**: 0g/100g
- **Hexane**: 0g/100g
- **CHCl₃**: 0g/100g

**Registration**

- **CAS No.**: 1571 – 33 – 1
- **TSCA**: Listed on
- **EINECS**: 216 – 338 – 1
- **ENCS (JAPAN MITI)**: 3 – 2524
- **KE No.**: KE-28414

http://www.nissanchem.co.jp