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Typical Product Specifications & Properties

Tartaric Acid

CAS Number: : 87-69-4

Specifications	Limits
SMILES	<chem>O[C@H]([C@@H](O)C(=O)O)C(=O)O</chem>
InChI	1S/C4H6O6/c5-1(3(7)8)2(6)4(9)10/h1-2,5-6H,(H,7,8)(H,9,10)/t1-,2-/m0/s1
InChIKey	FEWJPZIEWOKRBE-LWMBPPNESA-N
Henry's Law Constant	1.32E-10 atm-m3/mole
log P (octanol-water)	-1.000
pKa Dissociation Constant	3.06
Vapor Pressure	1.48E-07 mm Hg
Water solubility	5.82E+05 mg/L
Atmospheric OH Rate Constant	1.38E-11 cm3/molecule-sec
Water solubility	1390 g/L (20 °C)
Color	White or colorless
FEMA	3044



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Specifications	Limits
Alpha	12 ° (c=20, H2O)
Merck	14,9070
Solubility	H2O: soluble 1M at 20°C, clear, colorless
Form	Solid
Storage Temperature	Store at room temperature.
Refractive Index	12.5 ° (C=5, H2O)
BRN Number	1725147
Stability	Stable. Incompatible with oxidizing agents, bases, reducing agents. Combustible.
Vapor Density	5.18
Density	1.76
Flash Point	210 °C
Melting Point	170-172 °C



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Specifications	Limits
Specific Rotation	+ 12.0/12.8 (aq. solution 20%, w/v, alpha D ²⁰)
Storage	Storage time to less than 12 month in order to avoid the caking. Kept in the original packing, in dry cool place, avoiding to expose it to very hot or cold temperatures and to direct sun light.



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