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"PURIFOS" FOOD GRADE PHOSPHORIC ACID H₃PO₄

FORMULA

H₃PO₄ (Ortho)

CALASSIFICATION

B.T.N. 28.092000 CAS No. 7664-38-2.
EINECS No. 231-632-2 EEC Classification E338

MOLECULAR WEIGHT

98

METHOD OF MANUFACTURE

The ROTEM AMFERT NEFEV Food Grade Acid is manufactured by the hydrochloric acid attack on phosphate rock., followed by a solvent extraction cleaning process. The phosphoric acid is produced in a process at a concentration of 93% H₃PO₄ and then diluted according to the specifications and requirements of the clients

APPEARANCE

The Acid is a water clear, slightly viscous liquid

PHYSICAL DATA

H ₃ PO ₄ CONC . %W/W	P ₂ O ₅ CONC. %W/W	FREEZING POINT (*)		DENSITY(**) gm/ml @ 25°C / 77°F	DENSITY(**) lbs/gallon @ 25°C / 77°F	LBS OF ACID CONTAINING 1000 LBS P ₂ O ₅	GALLON OF ACID CONTAINING 1000 LBS P ₂ O ₅
		°C	°F				
93	67.39	27	80	1.791	14.95	1484	99.26
85	61.59	21	70	1.685	14.06	1624	115.50
80	57.97	0	32	1.625	13.56	1725	127.21
75	54.34	-20	-4	1.574	13.14	1840	140.03

* The real freezing point is actually lower since the acid has super-cooling properties which reduces the crystallization temperature

** The density increases with decreasing temperature, at a rate equal to 0.00648 lbs/g for each degree centigrade

TYPICAL ANALYSIS OF IMPURITIES

ELEMENT	UNIT	TYPICAL	MAXIMUM
Fe	ppm	3	5
Cu	ppm	0.5	1
Ca	ppm	5	15
Cd	ppm	0.4	1
Ni	ppm	0.2	0.5
As	ppm	0.3	0.5
Cr	ppm	2	3
V	ppm	1.0	1.5
F	ppm	7	10
SO ₄	ppm	100	120
Total Heavy Metals	ppm (as pb)		5