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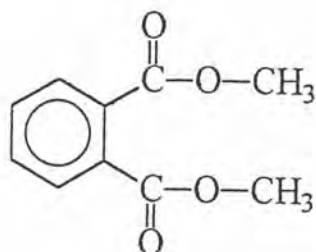
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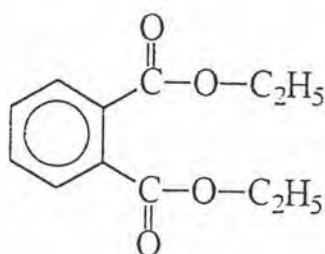
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APPENDIX A

Physical and chemical properties of phthalate esters (1.S6)

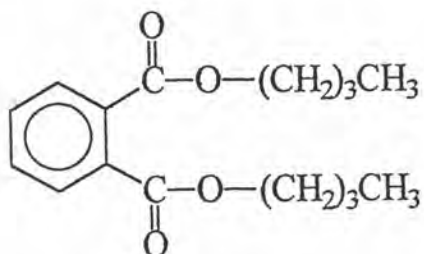
1. Dimethylphthalate

Molecular weight	:	194.18
Specific gravity	:	1.189 at 25/25°C
Boiling point	:	282°C at 760 mm Hg
Solubility in water	:	0.5 g/100g at 20°C

2. Diethylphthalate

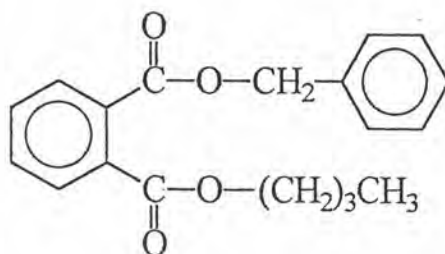
Molecular weight	:	222.23
Specific gravity	:	1.123 at 25/4°C
Boiling point	:	296.1°C at 760 mm Hg
Solubility in water	:	0.1 g/100g at 20°C

3. Di-n-butylphthalate



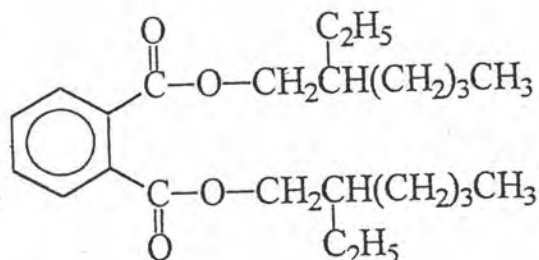
Molecular weight	:	278.34
Specific gravity	:	1.047-1.051 at 20/20°C
Boiling point	:	340°C at 760 mm Hg
Solubility in water	:	0.45 g/100g at 25°C

4. Butylbenzylphthalate



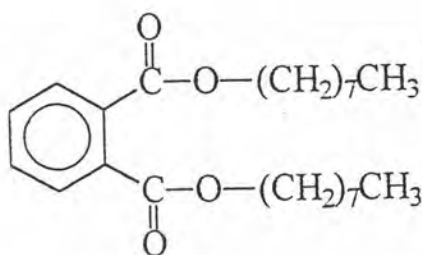
Molecular weight	:	312.37
Specific gravity	:	1.111-1.119 at 25/25°C
Boiling point	:	370°C at 760 mm Hg
Solubility in water	:	Insoluble

5. Di(2-ethylhexyl)phthalate



Molecular weight	:	391.0
Specific gravity	:	0.985 at 20/20°C
Boiling point	:	370°C at 760 mm Hg
Solubility	:	0.01 g/100g at 20°C

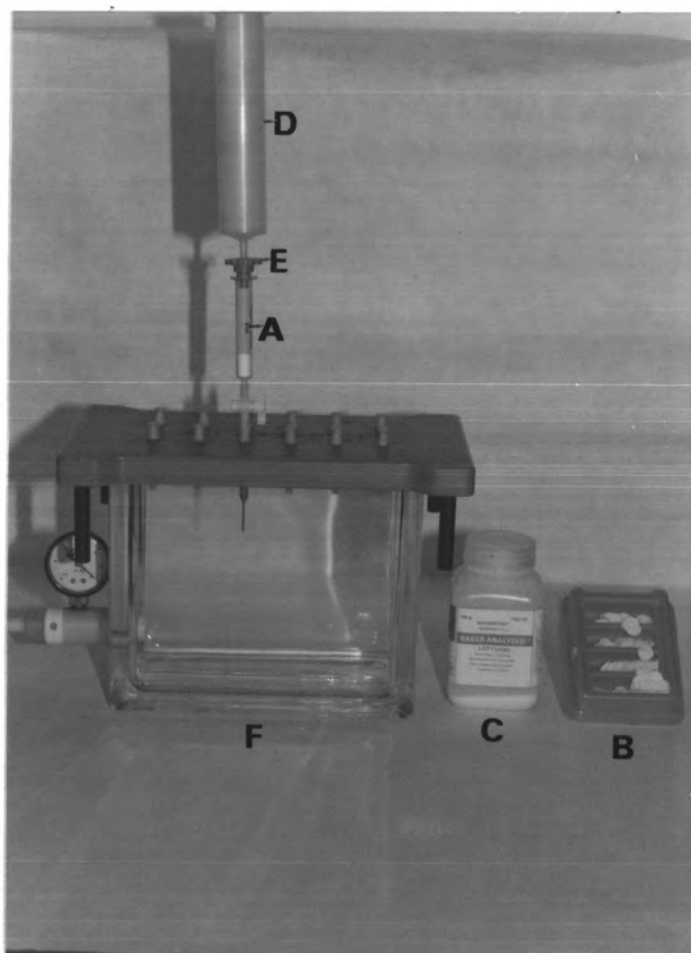
6. Di-n-octylphthalate



Molecular weight	:	391.0
Specific gravity	:	0.978 at 20/4°C
Boiling point	:	220°C at 4 mm Hg
Solubility in water	:	Insoluble

APPENDIX B

The materials used in this SPE technique



A: Disposable column 3 mL

B: Glassfiber prefilter, diameter 10 mm

C: Octadecyl (C₁₈) bulk packing

D: Reservoir 75 mL

E: Adapter

F: Baker-12 Extraction System

VITA

Miss Supanee Hiruntanakitjakul received a Bachelor Degree of Science (Chemistry) from Faculty of Science, Chulalongkorn University in 1981. Since 1990, She has been a graduate student studying Analytical Chemistry in Chulalongkorn University. She works at Division of Toxicology, Department of Medical Sciences, Ministry of Public Health from 1985 to present.

