

IR - Sadtler Prepared & Prescription Drugs (Acid) (Base) Wiley

Spectra - 885

Description

These databases contains infrared spectral data of 454 prepared drugs which are commercially available in dosage forms. The selection of materials for inclusion in the database was made from the *Physicians Desk Reference* and includes all categories of application classification. Preparations containing both a single active ingredient and formulated ingredients are represented in this database.

The data has been developed to provide the analytical chemist with a rapid method of characterizing drugs through a simple preparation technique, without the time required for prolonged separation procedures. Consequently, the spectra will not necessarily show the complete structure of the active ingredient(s), but will be characteristic of the trade name material.

The simple preparation procedure used in preparing this database is described below. The spectra have been determined from a dried filtered chloroform extract of the acidified or basic dosage form. In most cases only the active ingredient(s) are extracted from the dosage form since excipients, such as starch and sugars, are insoluble in chloroform. The use of this procedure is not intended to identify all active ingredients of the products. In a few cases, due to the nature of the drug, the separation technique resulted in only the basic or acidic extract providing significant infrared data. In such cases only the relevant spectrum for the material is presented. The scans of basic extract and acidic extract for each compound are shown in separate databases.

Additional Information

Each compound is identified by its commercial or trade name. The following additional information is also included when available: chemical composition, physical description, use, synonyms, molecular formula, molecular weight, source of sample, and technique.

The trade name of each drug is shown with the corresponding spectrum together with the generic name or names of the components. The concentration of active ingredients in the single dosage form examined is also included. The manufacturer's name and the nature of the dose also appears.

Technique

Sample preparation procedure is as follows. The complete pill or capsule content was ground and to the total powdered sample was added 5 ml of chloroform and sufficient ammonia or caustic soda to render the mixture alkaline. The mixture was dried by shaking with a neutral drying agent, e.g. molecular sieves. The dried chloroform extract was then filtered onto a salt plate and evaporated to form a film on the plate. The residue from the extraction was preserved (the evaporation technique occasionally resulted in a powdered sample forming on the salt plate; in these circumstances the powder was scraped from the plate and a KBr pellet prepared for running the spectrum). The infrared spectrum of the film was measured immediately, (standing in air could cause decomposition). The undissolved residue from the basic extraction was remixed with 5 ml of chloroform and sufficient HCl to render this mixture acidic. The drying, filtering and evaporation procedures were repeated on this extract and the spectrum of the acidic extract measured immediately.

This collection has been subject to the Sadtler Data Review Protocol™ to provide you with the highest standard in spectral data today. These rigorous qualifying procedures start at data acquisition and continue throughout the database development process.

Classifications

Anti-Infection Agents	227	Antiemetics	6	Ophthalmic Preparations	23
Antibacterials	49	Anthelmintics	6	Mydriatics	6
Antibiotics	86	Antilipidemics	3	Ophthalmics	17
Antifungals	14	Antineoplastics	23		
Anti-Infectives	7	Antiseborrheics	4	Pain Medications	123
Antimalarials	10	Applicators	2	Analgesics	87
Antimicrobials	28	Dilators	9	Anti-Inflammatorys	33
Antituberculars	9	Diuretics	25	Antimigraines	3
Antivirals	2	Enzymes	6		
Germicides	14	Geriatrics	2	Psychotropics	125
Trichomonacides	8	Hematinics	12	Antidepressants	17
		Hemostatics	4	Antipsychotics	12
Cardiovascular Agents	117	Inhibitors	8	Relaxants	16
Antiarrhythmics	4	Laxatives	8	Sedatives	20
Anticoagulants	8	Therapeutic Agents	6	Stimulants	7
Antihypertensives	23	Uricosurics	2	Tranquilizers	53
Cardiac Agents	28	Dietary Supplements Vitamins	49		
Hypotensives	20			Seizure Compounds	27
Vasodilating Agents	34	Hormones	42	Anticonvulsants	21
		Androgens	12	Epilepsy Agents	4
Cold And Cough Preparations	56	Contraceptives	12	Spasmolytics	2
Antihistamines	21	Oxytocics	1		
Antitussives	14	Progestogens	4		
Decongestants	14	Thyroid Medications	13		
Expectorants	7				
		Nervous System Agents	130		
Control Agents	145	Adrenergics	14		
Anesthetics	5	Anticholinergics	38		
Antacids	4	Parasympatholytics	66		
Antiasthmas	6	Sympathomimetics	12		
Antidiabetics	2				