

## IR - Sadtler Amino Acids & Peptides - Wiley

Spectra - 790

### Description

This database contains 790 infrared spectra of amino acids, peptides, and compounds with the amino acid as a unit. It can be used for identification, classification, and verification of these materials.

### Additional Information

Each compound in the database is identified by its chemical name, method of analysis, structural formula, molecular formula, and molecular weight. Synonyms, melting point, boiling point, literature references, and comments are also displayed when available.

### Classifications

#### The main group of amino acids include:

Alanine	ala	$\text{CH}_3\text{-CH(NH}_2\text{)-COOH}$
Arginine	arg	$\text{HN=C(NH}_2\text{)-NH-(CH}_2\text{)}_3\text{-CH(NH}_2\text{)-COOH}$
Asparagine	asn	$\text{H}_2\text{N-CO-CH}_2\text{-CH(NH}_2\text{)-COOH}$
Aspartic acid	asp	$\text{HOOC-CH}_2\text{-CH(NH}_2\text{)-COOH}$
Cysteine	cys	$\text{HS-CH}_2\text{-CH(NH}_2\text{)-COOH}$
Glutamine	gln	$\text{H}_2\text{N-CO-(CH}_2\text{)}_2\text{-CH(NH}_2\text{)-COOH}$
Glutamic acid	glu	$\text{HOOC-(CH}_2\text{)}_2\text{-CH(NH}_2\text{)-COOH}$
Glycine	gly	$\text{NH}_2\text{-CH}_2\text{-COOH}$
Histidine	his	$\text{NH-CH=N-CH=C-CH}_2\text{-CH(NH}_2\text{)-COOH}$   
Isoleucine	ile	$\text{CH}_3\text{-CH}_2\text{-CH(CH}_3\text{)-CH(NH}_2\text{)-COOH}$
Leucine	leu	$\text{(CH}_3\text{)}_2\text{-CH-CH}_2\text{-CH(NH}_2\text{)-COOH}$
Lysine	lys	$\text{H}_2\text{N-(CH}_2\text{)}_4\text{-CH(NH}_2\text{)-COOH}$
Methionine	met	$\text{CH}_3\text{-S-(CH}_2\text{)}_2\text{-CH(NH}_2\text{)-COOH}$
Phenylalanine	phe	$\text{Ph-CH}_2\text{-CH(NH}_2\text{)-COOH}$
Proline	pro	$\text{NH-(CH}_2\text{)}_3\text{-CH-COOH}$   
Serine	ser	$\text{HO-CH}_2\text{-CH(NH}_2\text{)-COOH}$
Threonine	thr	$\text{CH}_3\text{-CH(OH)-CH(NH}_2\text{)-COOH}$
Tryptophan	trp	$\text{Ph-NH-CH=C-CH}_2\text{-CH(NH}_2\text{)-COOH}$   
Tyrosine	tyr	$\text{HO-p-Ph-CH}_2\text{-CH(NH}_2\text{)-COOH}$
Valine	val	$\text{(CH}_3\text{)}_2\text{-CH-CH(NH}_2\text{)-COOH}$

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